Monthly Means of the Temperature, Salinity and Density along the Halifax Section

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ABSTRACT

Drinkwater, Ken and George Taylor. 1982. Monthly means of the temperature, salinity and density along the Halifax Section . Can. Tech. Rep. Fish. Aquat. Sci. xxxx.

Monthly means of the temperature, salinity and density along the Halifax Section, calculated from data collected approximately once per season from 1950 to 1977, are presented.

RESUME

Les moyennes mensuelles de la température, de la salinité et de la densité sont calculées pour la section d'Halifax à partir de données récoltées chaque saison de 1950 à 1977 et sont présentées dans ce rapport.

Introduction

From 1950 to 1977 a hydrographic transect known as the Halifax Section was run southeastward from Halifax, Nova Scotia across the Scotian Shelf on approximately a seasonal basis by Canadian oceanographers. Most of these data are contained in Taylor (1961, 1966), de la Ronde (1972) and Dobson (1975, 1977, 1978). This report presents the monthly means of the temperature, salinity and density (σ_t) along this section.

Data

From 1950 to 1968 the Halifax Section consisted of 7 stations (Table I, Fig. I) stretching to a maximum 230 km off the Nova Scotia coastline. Eleven additional stations were occupied between December 1968 and January 1971 (de la Ronde 1972) while between 1974 and 1977 this was reduced to 5 additional stations (Dobson 1975). Only data taken at the sites of the original seven stations are considered within this report. These stations generally contain the most data and are sufficient to indicate the basic features of the seasonal hydrographic changes over the Scotian Shelf.

Prior to 1967 data were collected at standard depths using Knudsen bottles and reversing thermometers. From 1967 onward a continuous profiling CTD was used.

For this report, data up to 1972 was obtained from the Marine Environmental Data Service (MEDS) in Ottawa. All data within .05 of a degree square of the positions in Table I were used. No USSR data were included, being unavailable at the time of the original request for data from MEDS. Data from 1974-77 were taken directly from Dobson (1975, 1977, 1978). Cruise 74-034, as reported by Dobson (1975), was not included due to poor quality data.

The approximate temporal coverage of the Halifax Section by year and month is shown in Fig. 2. Each transect in Fig. 2 represents an occupation of a minimum of four of the original seven stations of which there were a total of 95 such transects between 1950 and 1977. The data set for each individual station differs slightly from that in Fig. 2.

Analysis

Monthly means and standard deviations of the temperature, salinity and density (σ_t) were calculated at standard depths from 0 to 500 m (where possible) for each of the seven Halifax Section stations. These values are listed in Appendix I together with the total number of observations. Salinities are reported in the Practical Salinity Scale in accordance with the International System of Units (SI units). Note a sample of seawater with a salinity of .00335 (33.5°/oo) has a practical salinity of 33.5. The average temperature, salinity and density along the Halifax Section for each month are plotted in Fig. 3. The time-depth distribution of the means are shown for each station in Fig. 4. Fig. 5 shows the seasonal variation of the means and their standard deviations at each station for 0 m, 50 m and, where possible, 200 m. T,S diagrams showing the seasonal variations of the means at selected depths for each station are plotted in Fig. 6. Finally, the entire Halifax Section data set is plotted seasonally as T,S diagrams (Fig. 7). These indicate the range within which the T,S data fall. Note the density of T,S points does not represent water volume as a larger proportion of the number of observations were taken in the near-surface layer.

Analysis of year to year changes in the temperature or salinity properties along the Halifax section has not been attempted using the present data set. The once per season coverage is insufficient to adequately resolve yearly differences. The changes in temperature or salinity that occur due to the tides, wind storms,

internal waves, etc. are often as large or larger than those that occur from year to year. This 'aliasing' of the low frequency by higher frequency events has been discussed in regards to the Halifax Section data by Mann and Needler (1967) and later by Mann (1969) and Drinkwater et al. (1979).

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TABLE 1

The Location of the Halifax Section Stations

Station	Latitude	Longitude
1	44° 24'	63° 28'
2	44° 16'	63° 18'
3	44° 53'	62° 53'
4	43° 29'	62° 27'
5	43° 11'	62° 27'
6	42° 51'	61° 44'
7	42° 32'	61° 24'

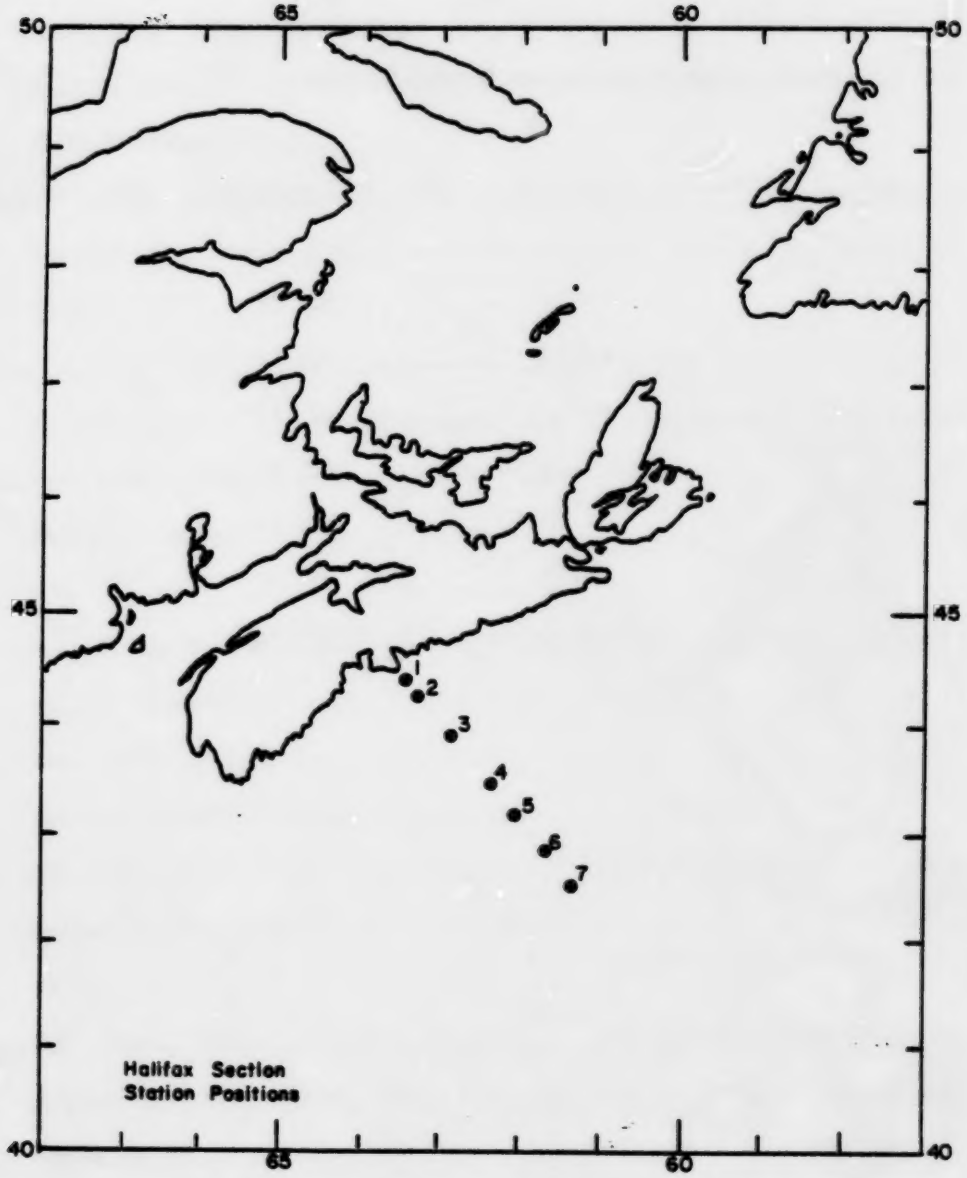

Fig. 1 Halifax Section Stations

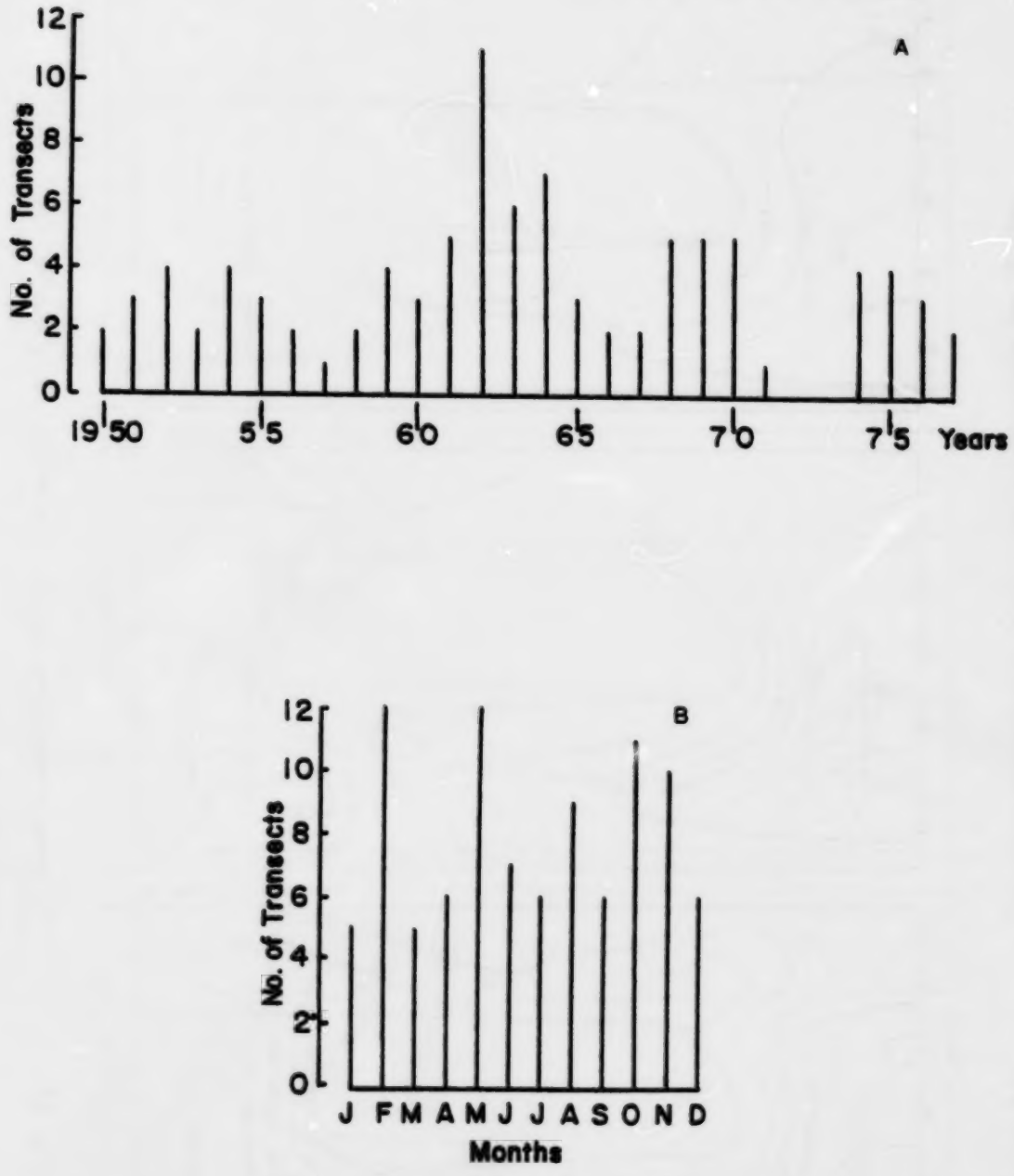

Fig. 2 Temporal coverage of the Halifax Section (A) by years and (B)by months.

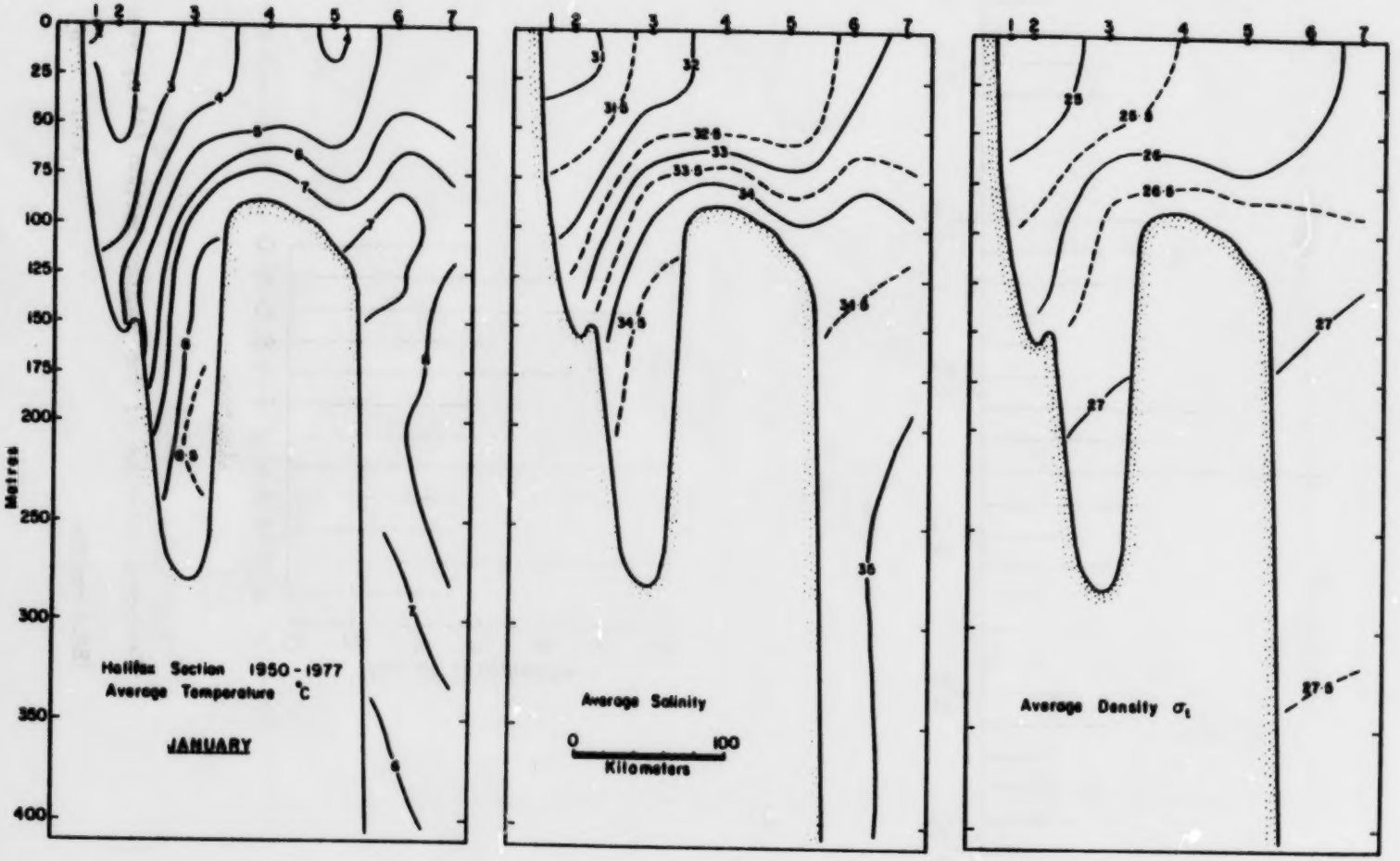

Fig. 3.1 The mean temperature, salinity and density along the Halifax Section for January.

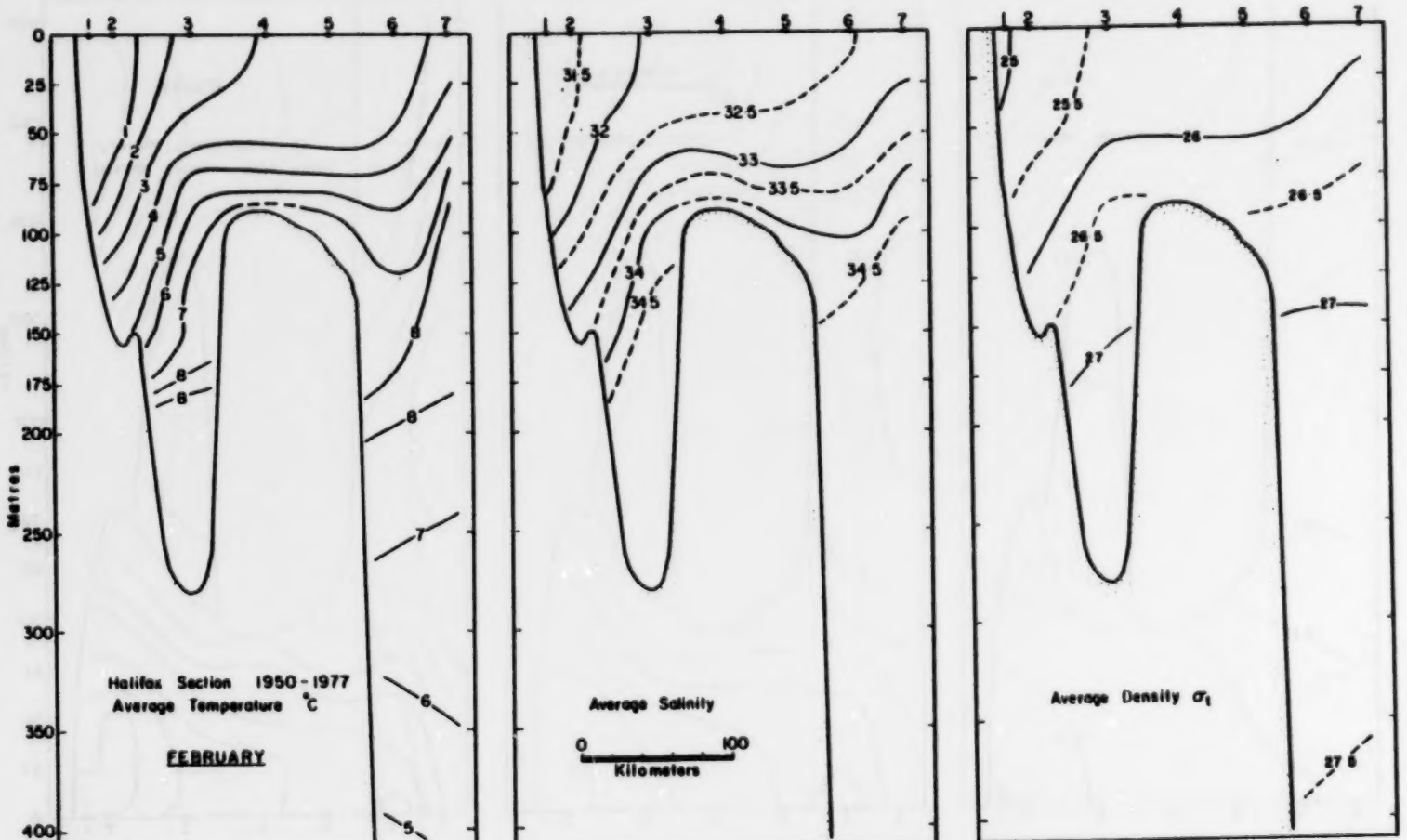

Fig. 3.2 The mean temperature, salinity and density along the Halifax Section for February.

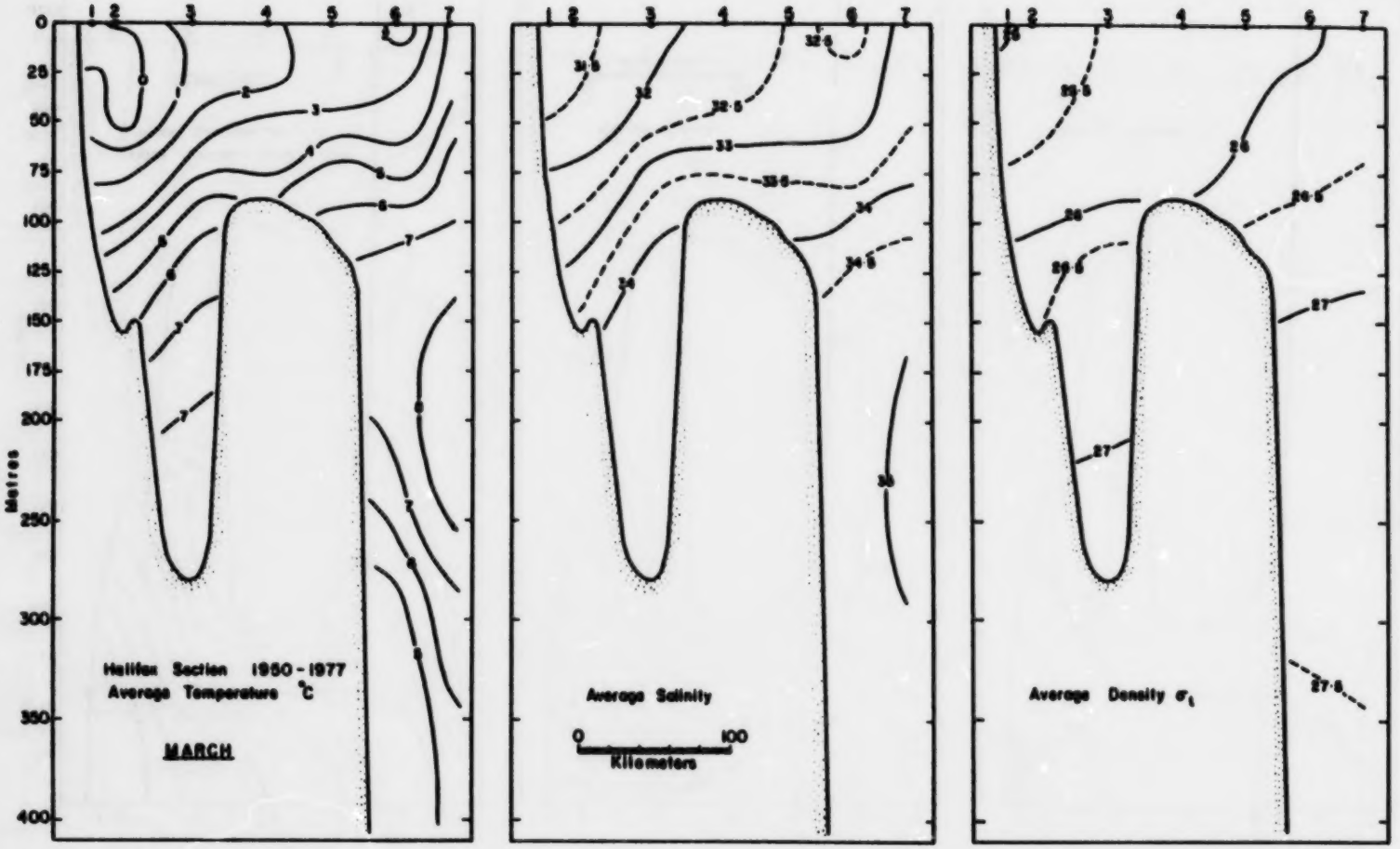

Fig. 3.3 The mean temperature, salinity and density along the Halifax Section for March.

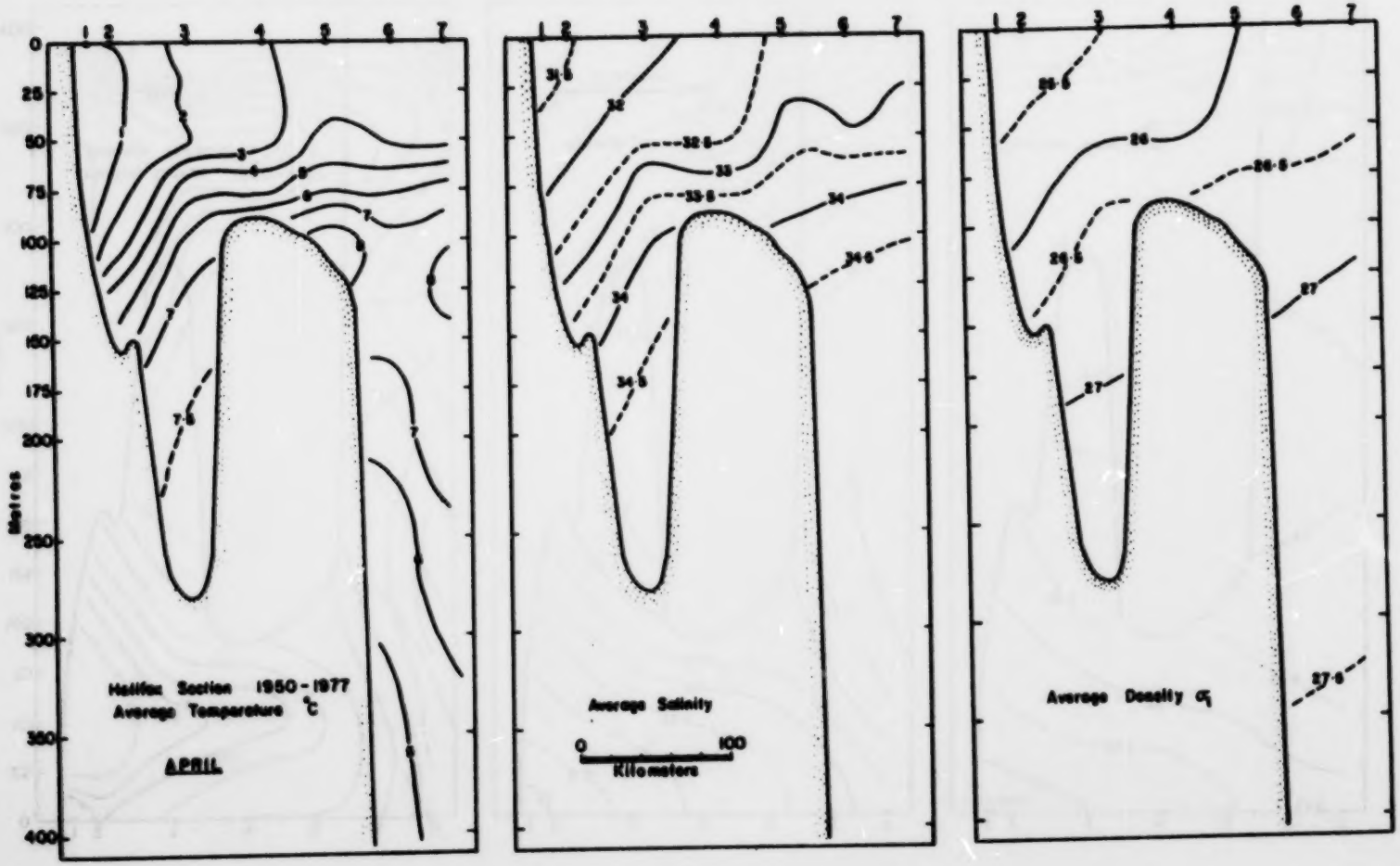

Fig. 3.4 The mean temperature, salinity and density along the Halifax Section for April.

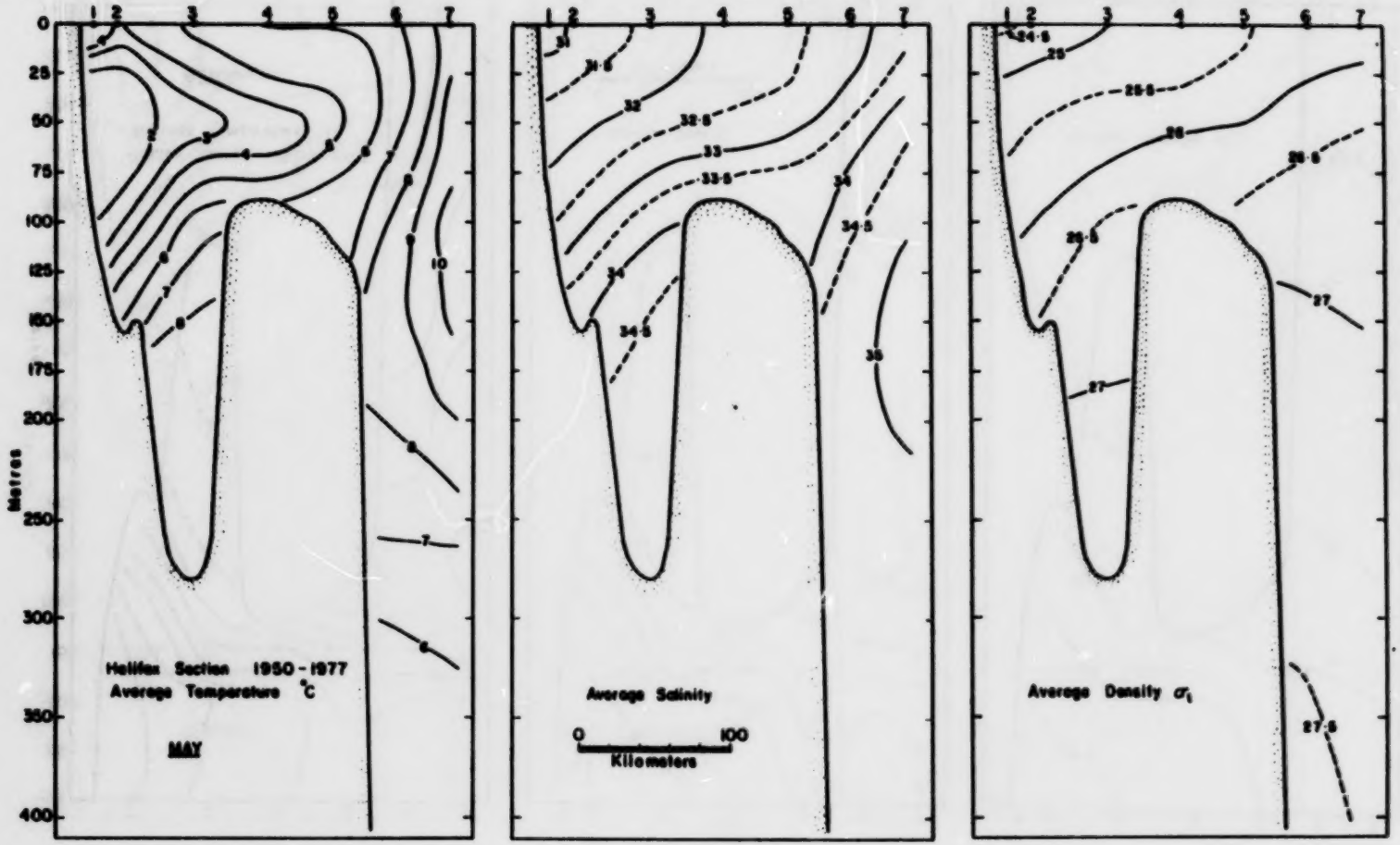

Fig. 3.5 The mean temperature, salinity and density along the Halifax Section for May.

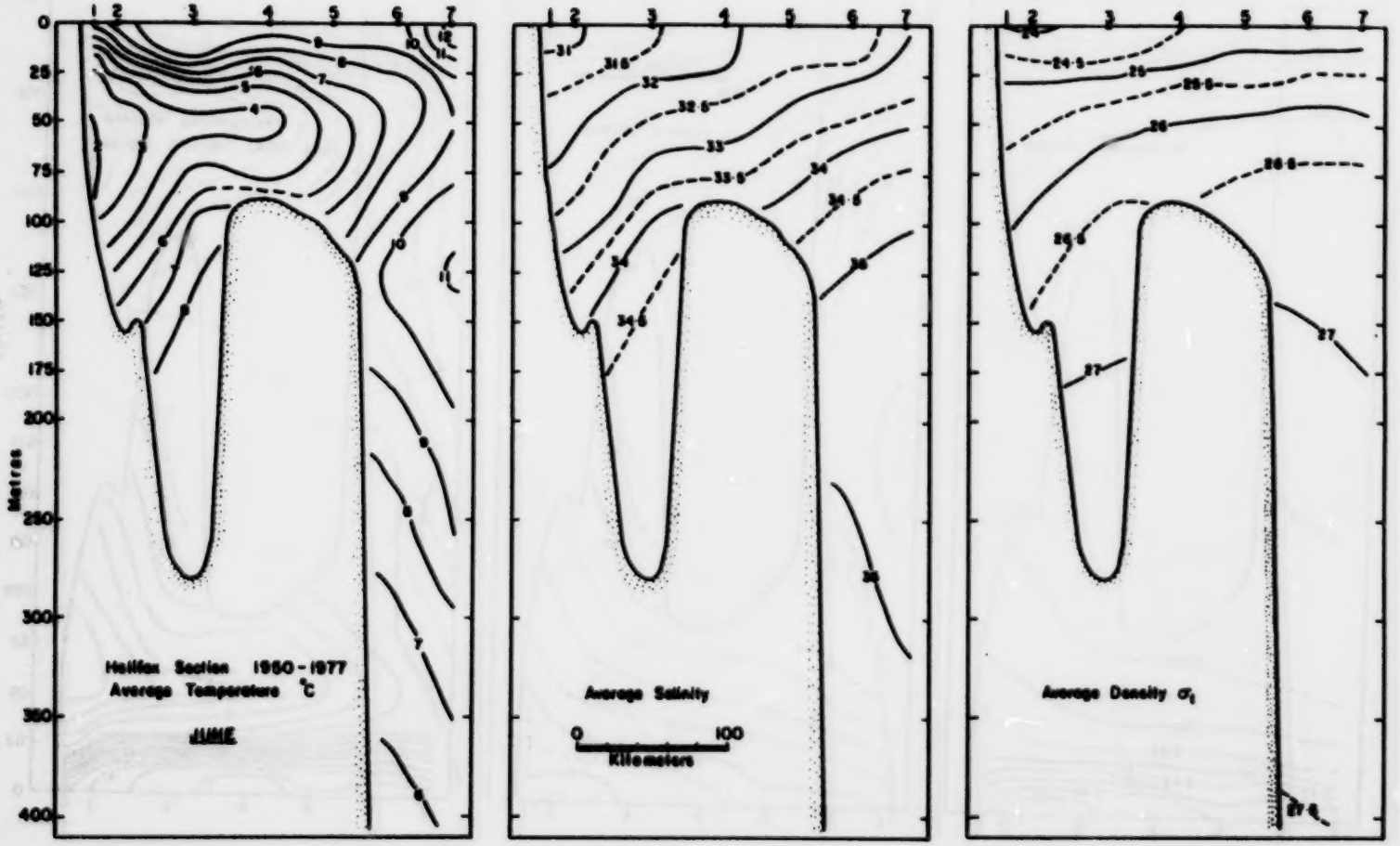

Fig. 3.6 The mean temperature, salinity and density along the Halifax Section for June.

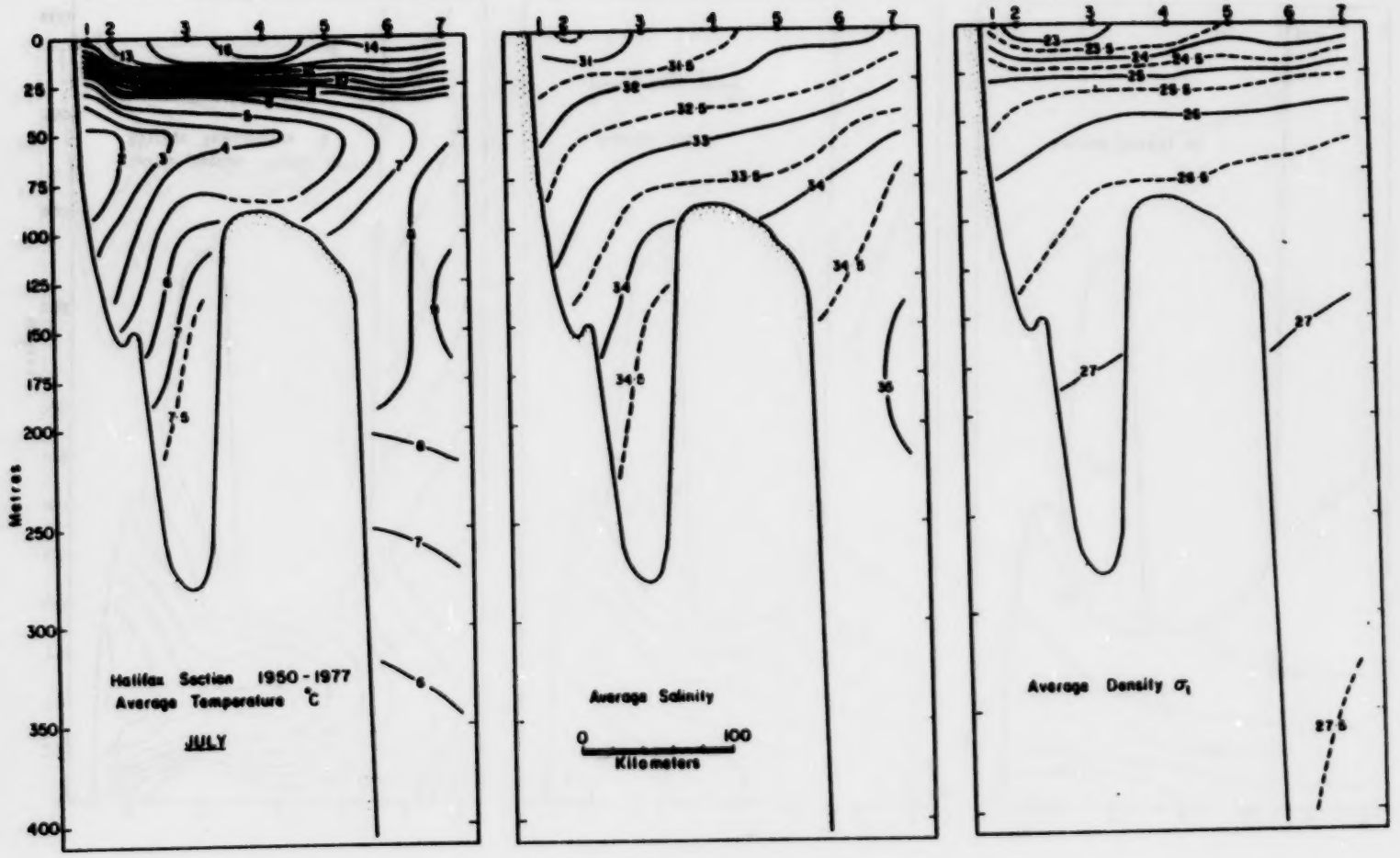

Fig. 3.7 The mean temperature, salinity and density along the Halifax Section for July.

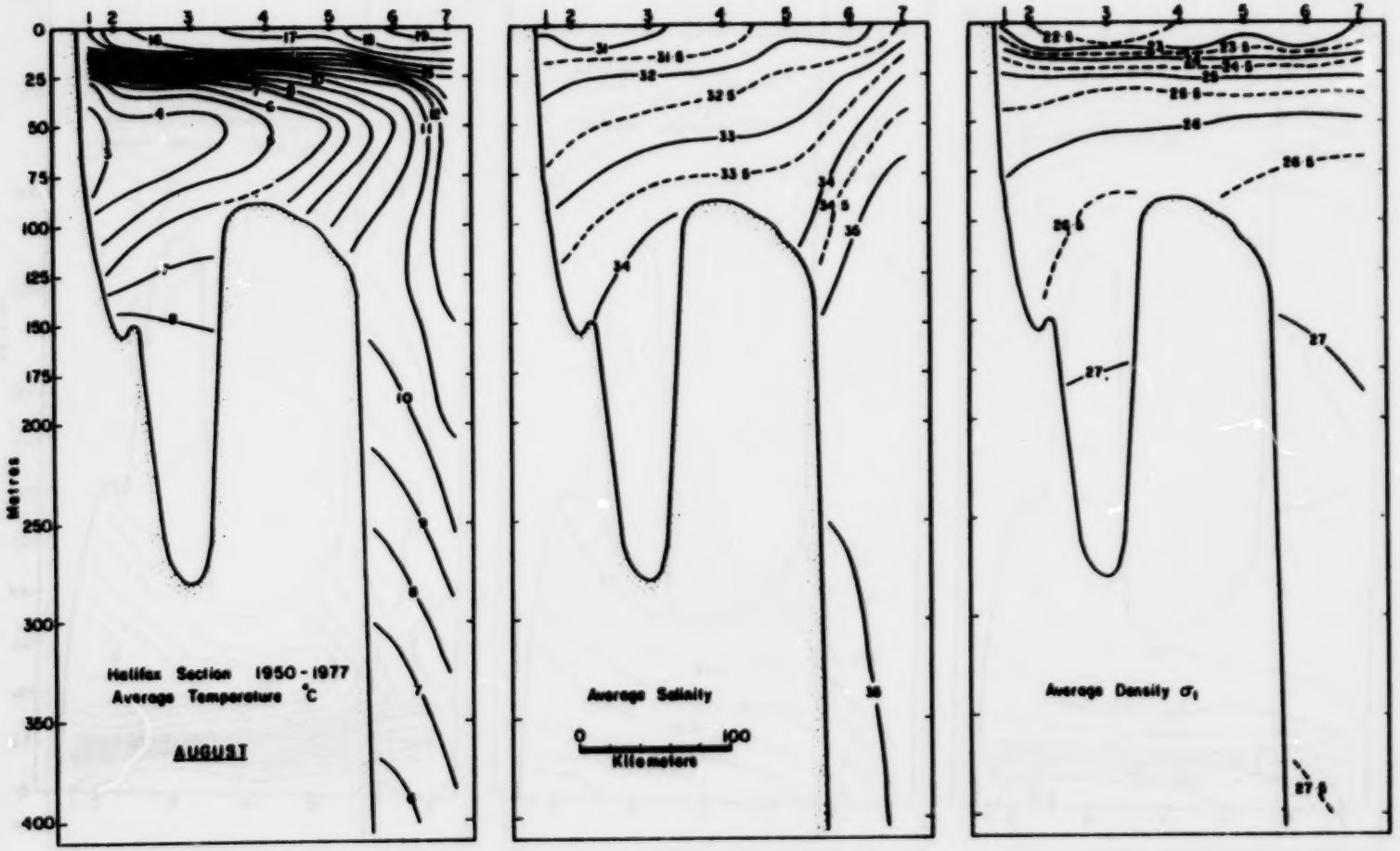

Fig. 3.8 The mean temperature, salinity and density along the Halifax Section for August.

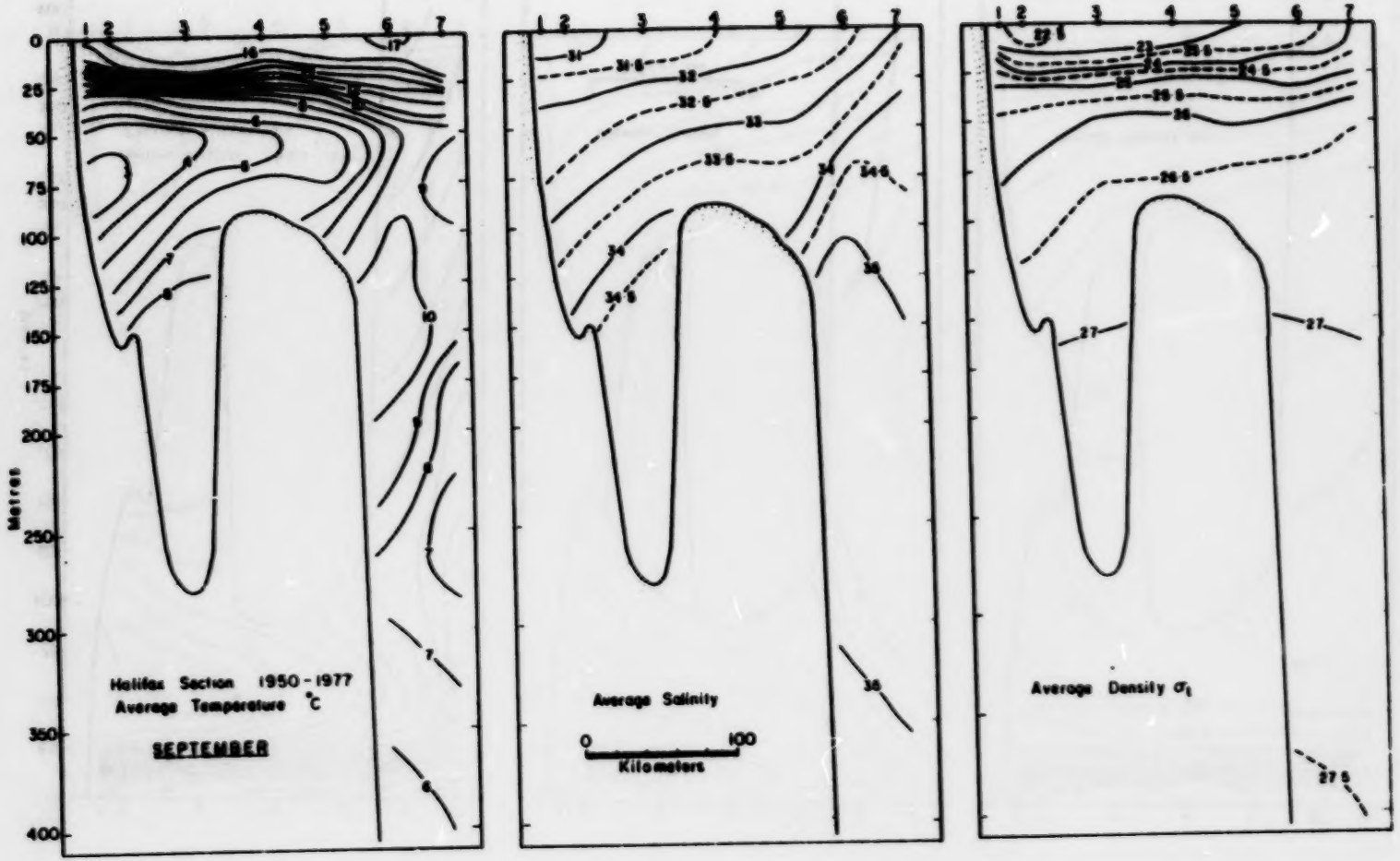

Fig. 3.9 The mean temperature, salinity and density along the Halifax Section for September.

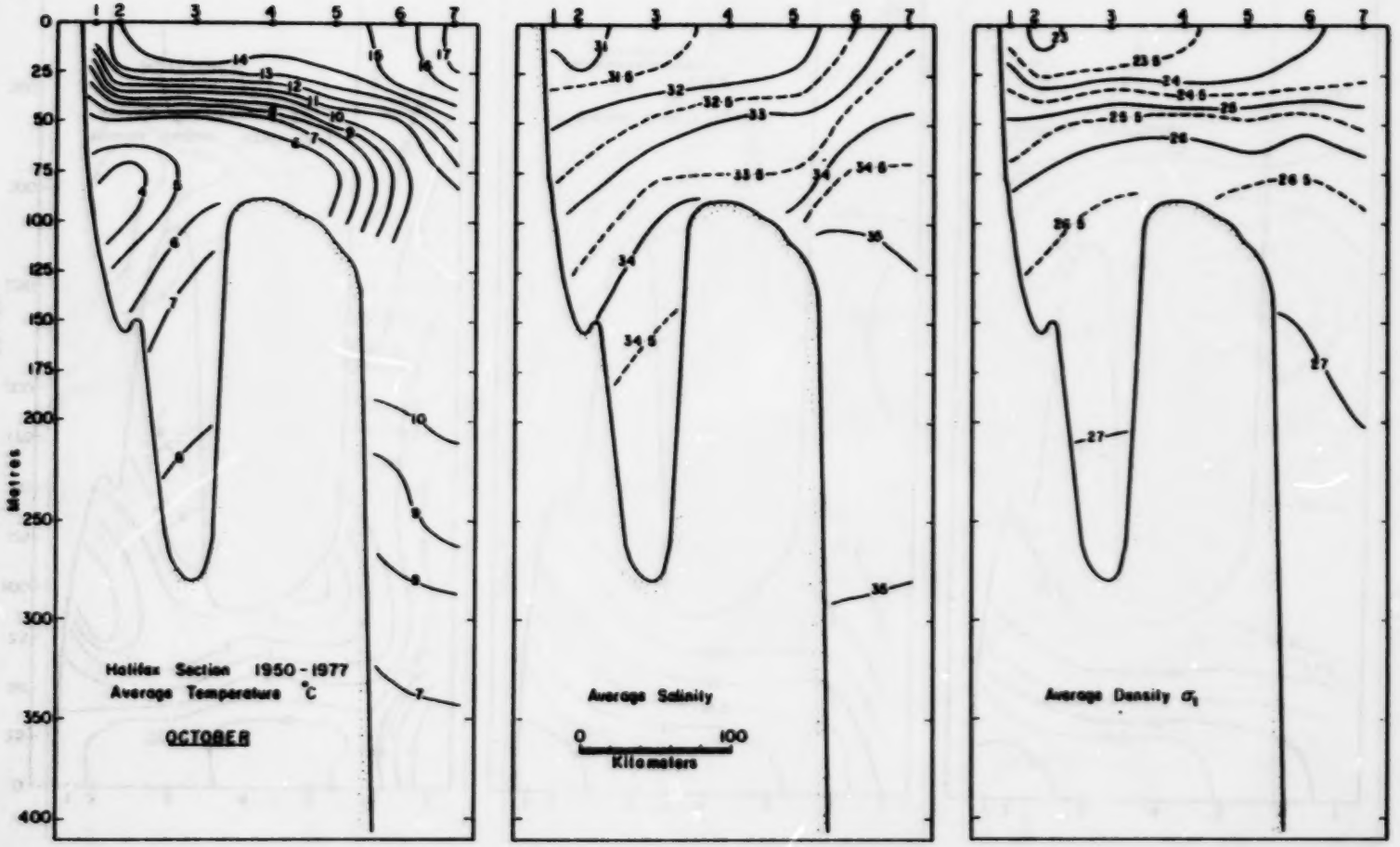

Fig. 3.10 The mean temperature, salinity and density along the Halifax Section for October.

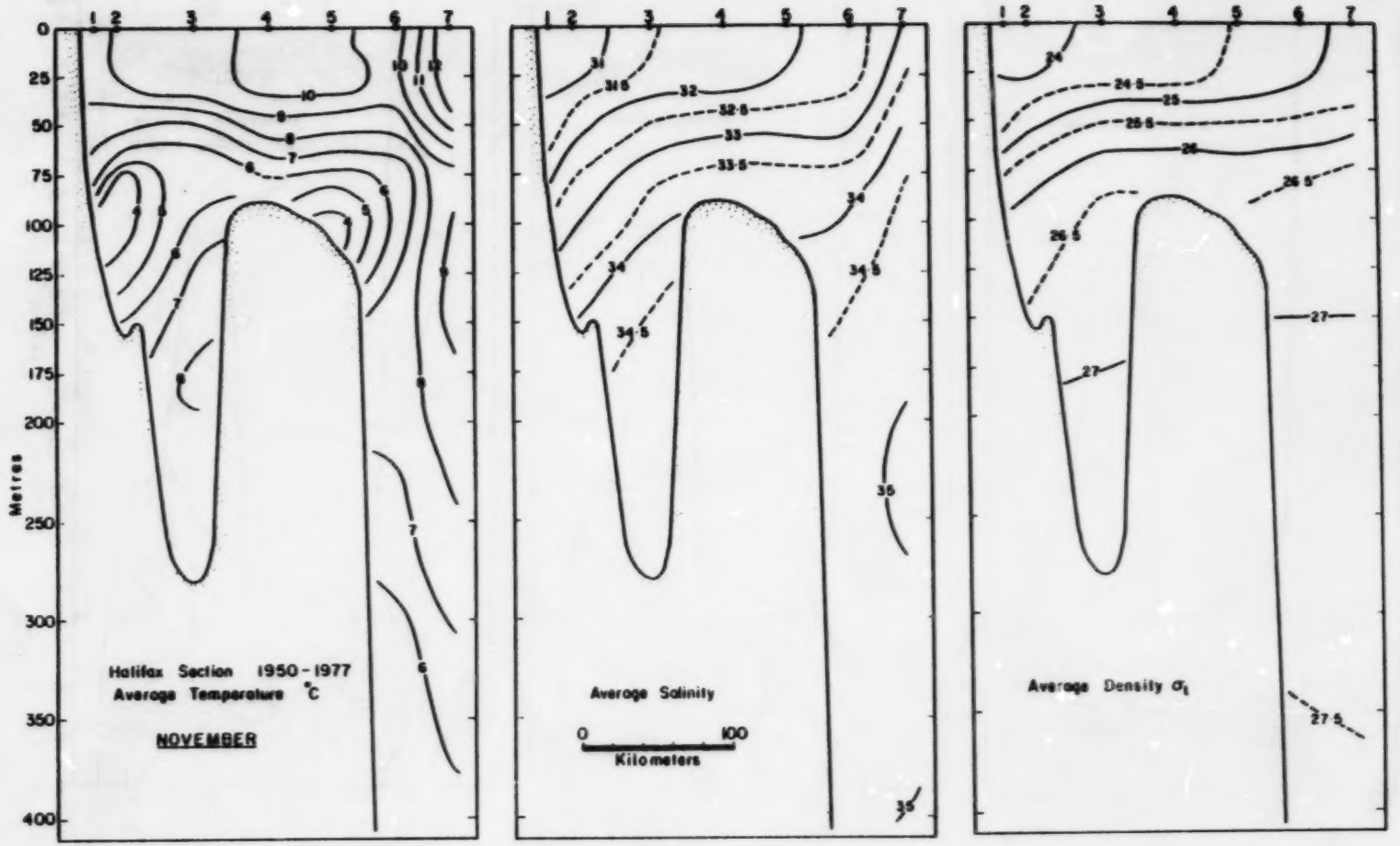

Fig. 3.11 The mean temperature, salinity and density along the Halifax Section for November.

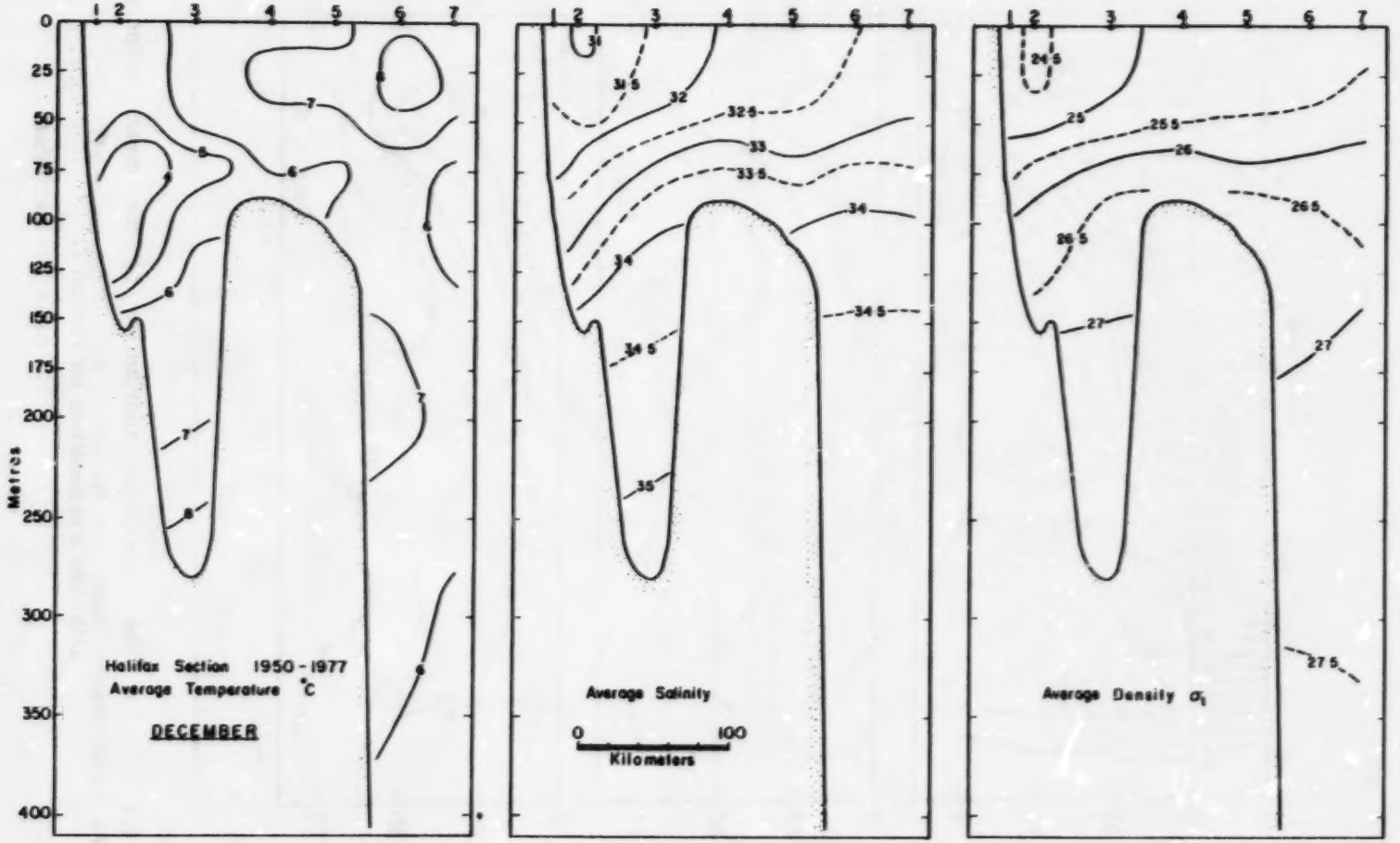

Fig. 3.12 The mean temperature, salinity and density along the Halifax Section for December.

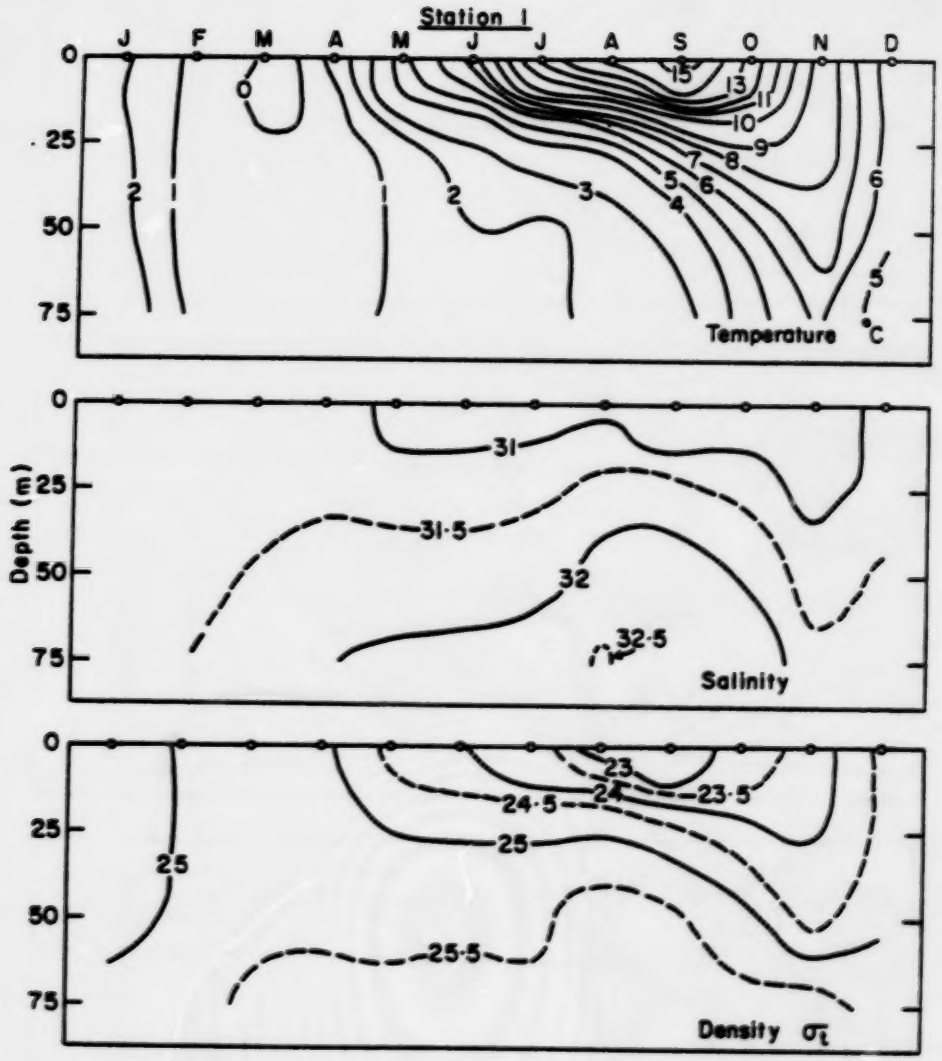

Fig. 4.1 The time-depth distribution of the mean temperatures, salinities and densities for station 1.

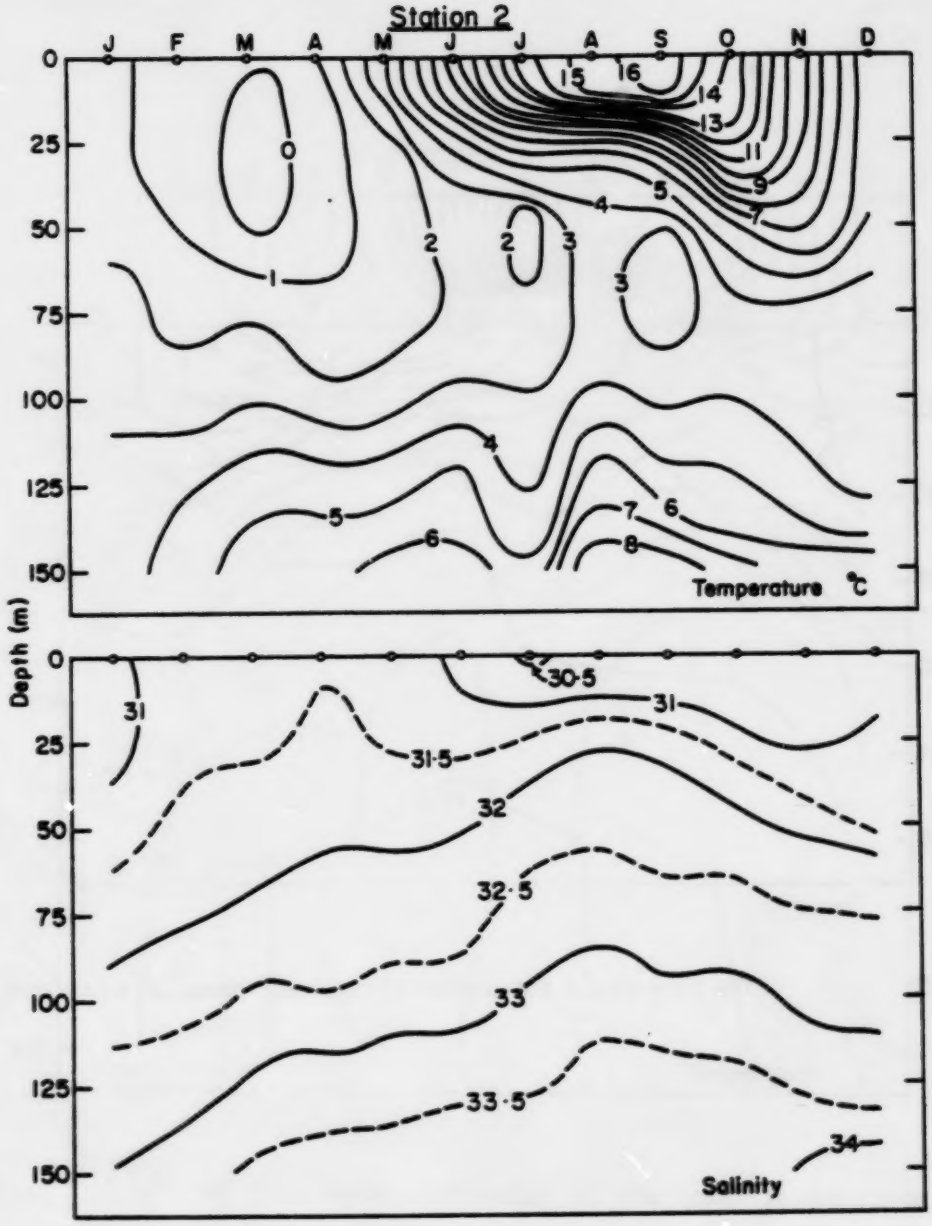

Fig. 4.2a The time-depth distribution of the mean temperatures and salinities at station 2.

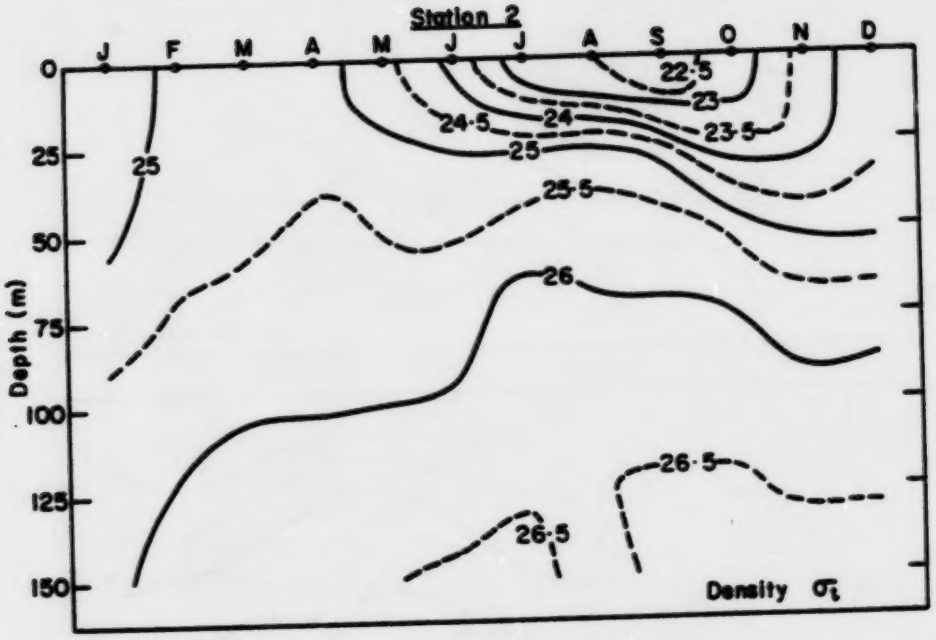

Fig. 4.2b The time-depth distribution of the mean densities at station 2.

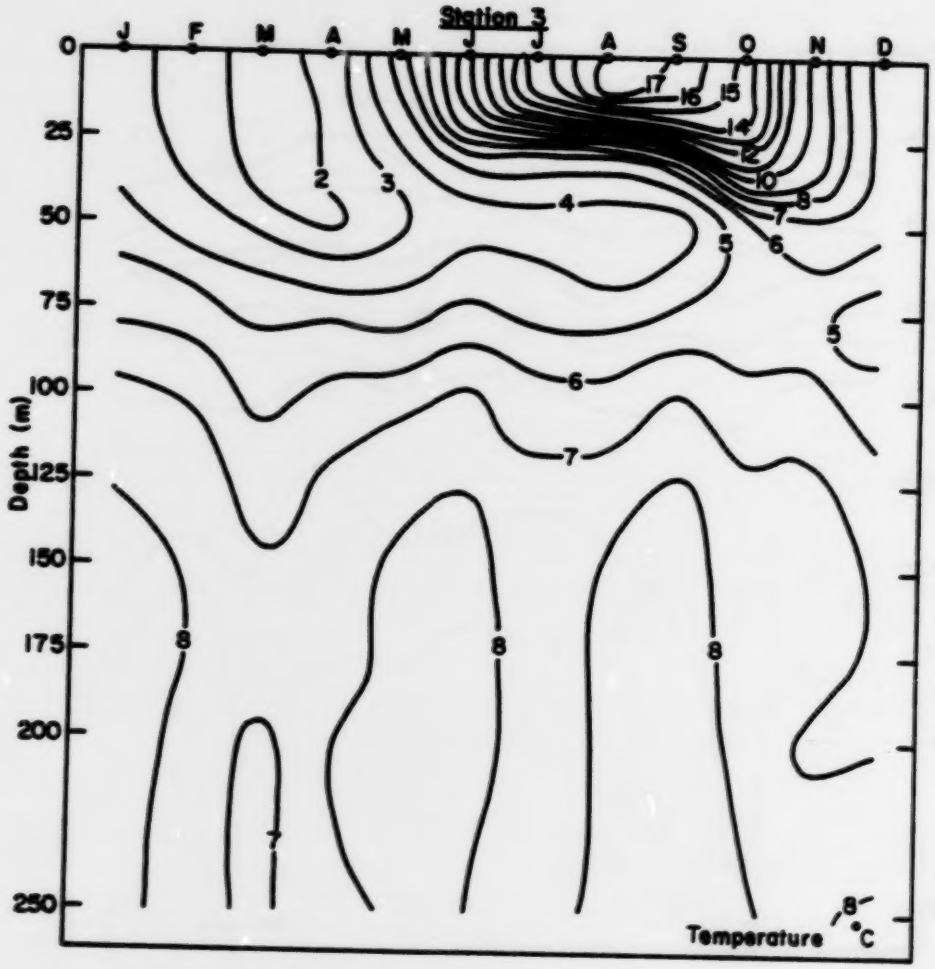

Fig. 4.3a The time-depth distribution of the mean temperatures at station 3.

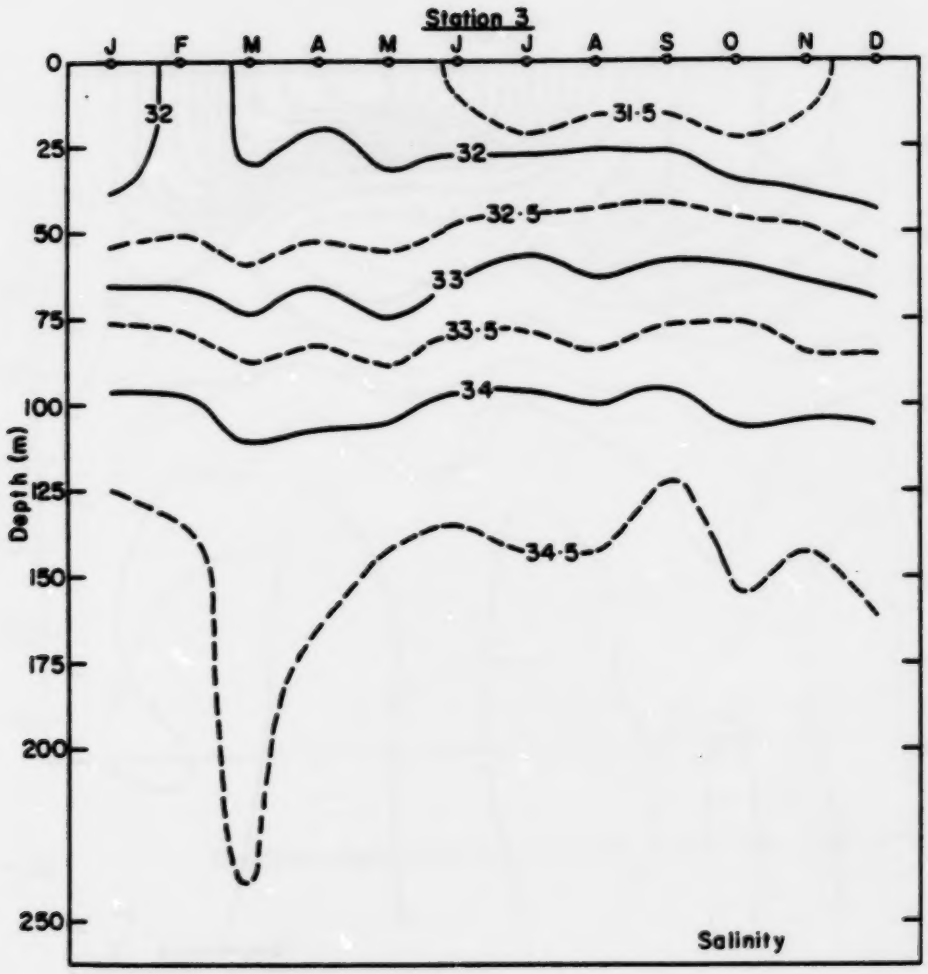

Fig. 4.3b The time-depth distribution of the mean salinities at station 3.

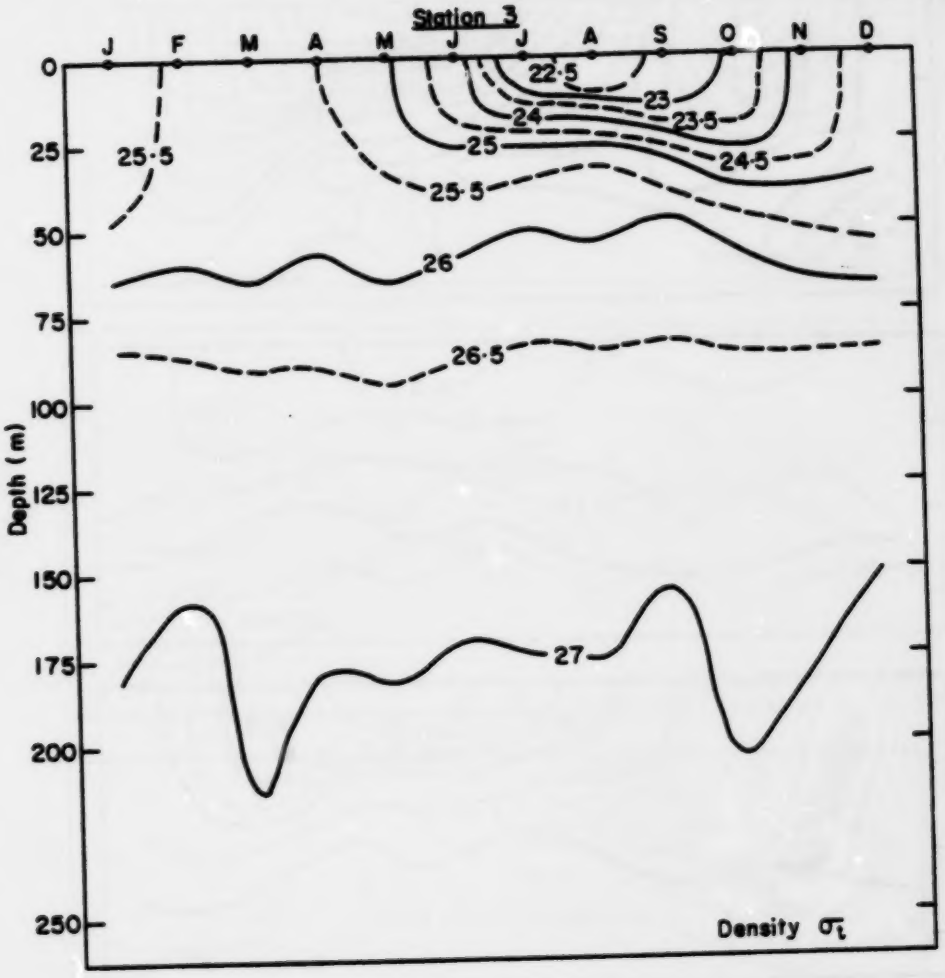

Fig. 4.3c The time-depth distribution of the mean densities at station 3.

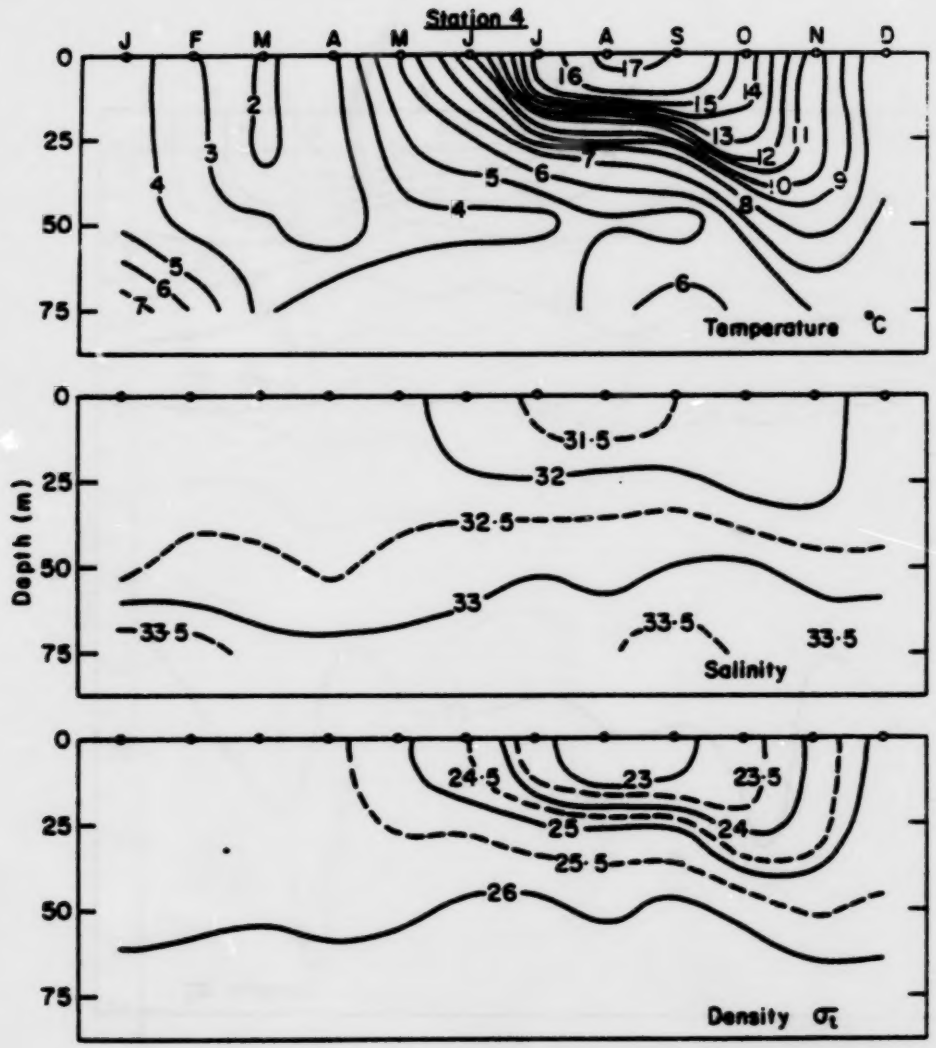

Fig. 4.4 The time-depth distribution of the mean temperatures, salinities and densities for station 4.

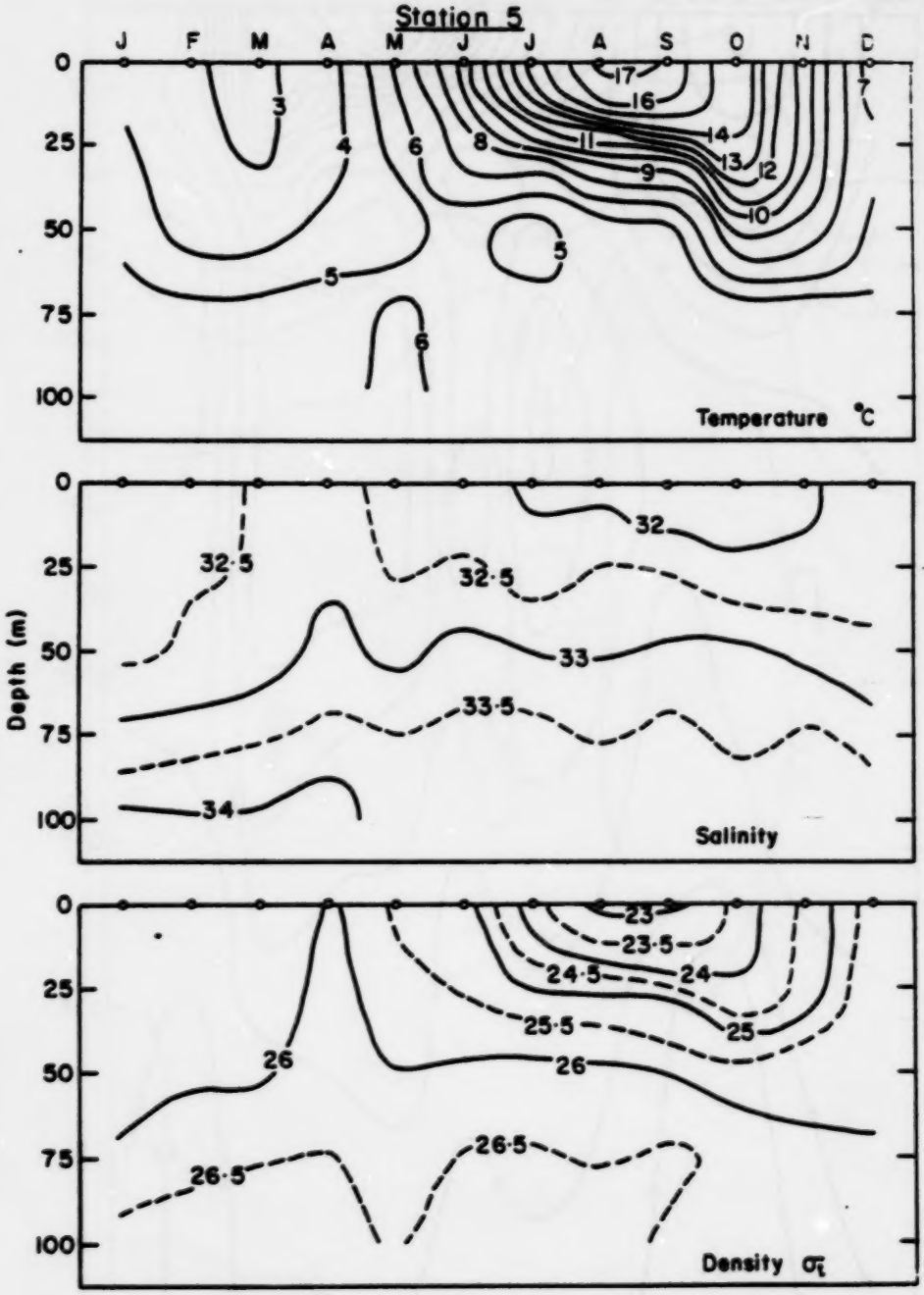

Fig. 4.5 The time-depth distribution of the mean temperatures, salinities and densities at station 5.

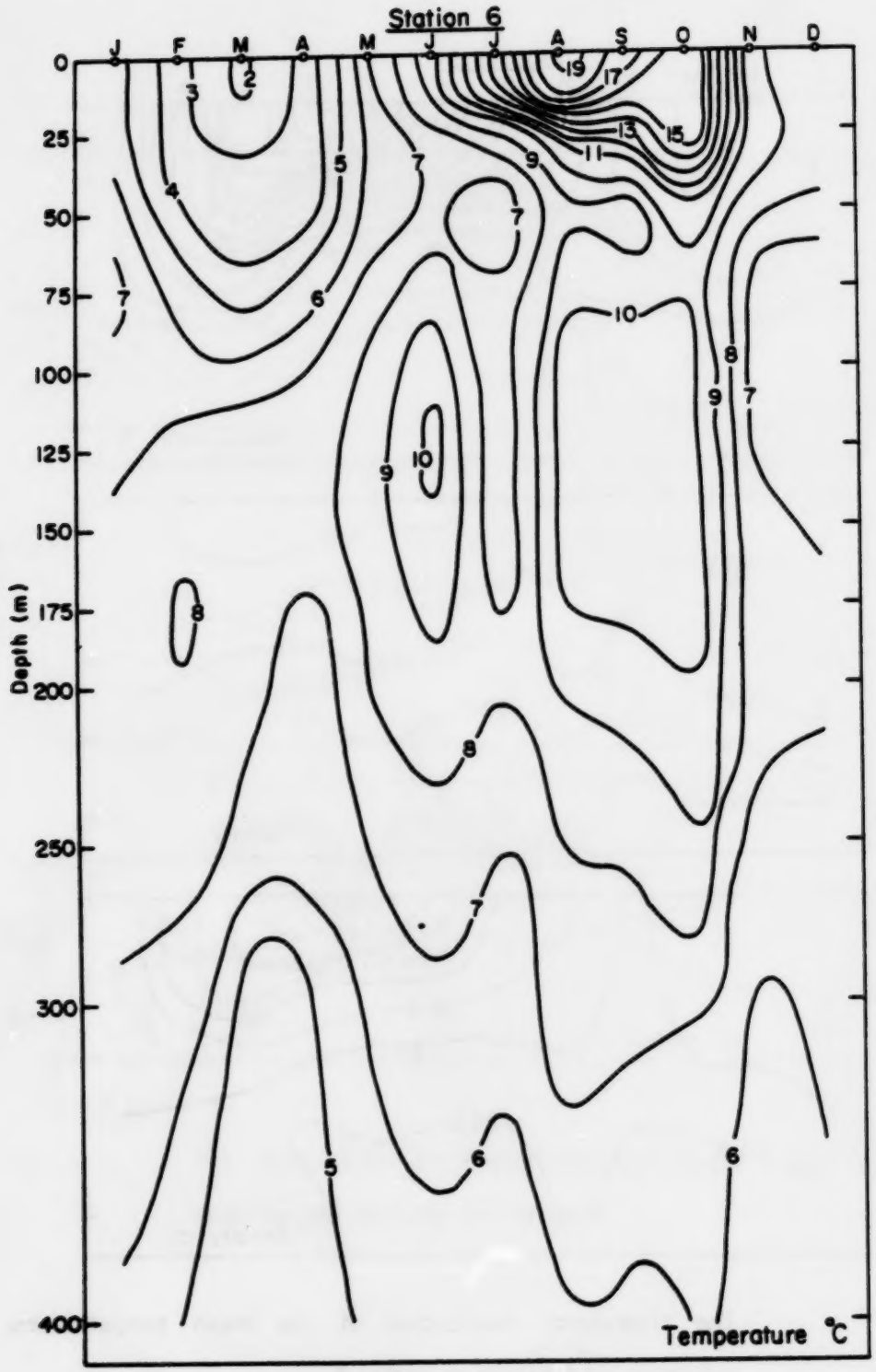

Fig. 4.6a The time-depth distribution of the mean temperatures at station 6.

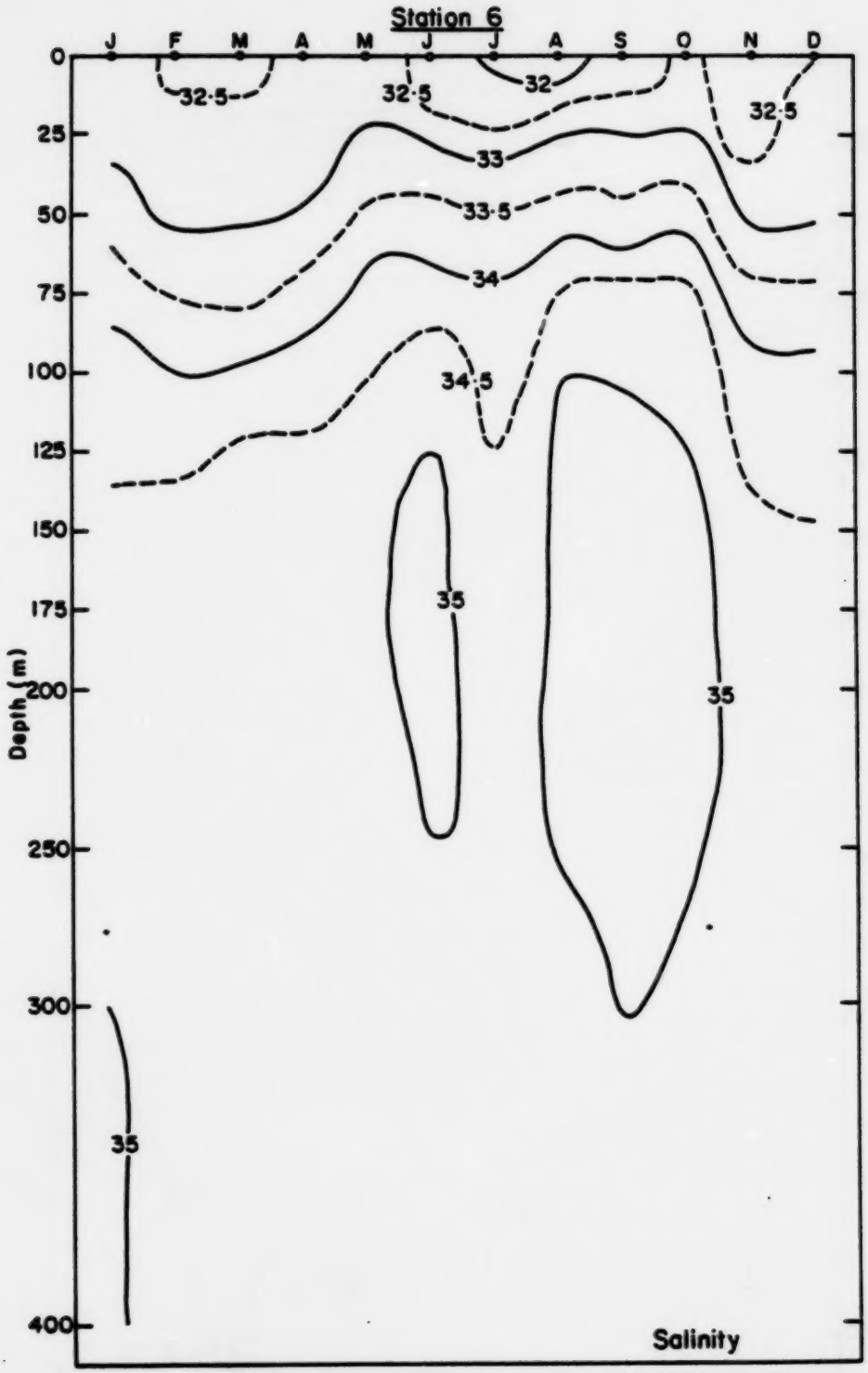

Fig. 4.6b The time-depth distribution of the mean salinities at station 6.

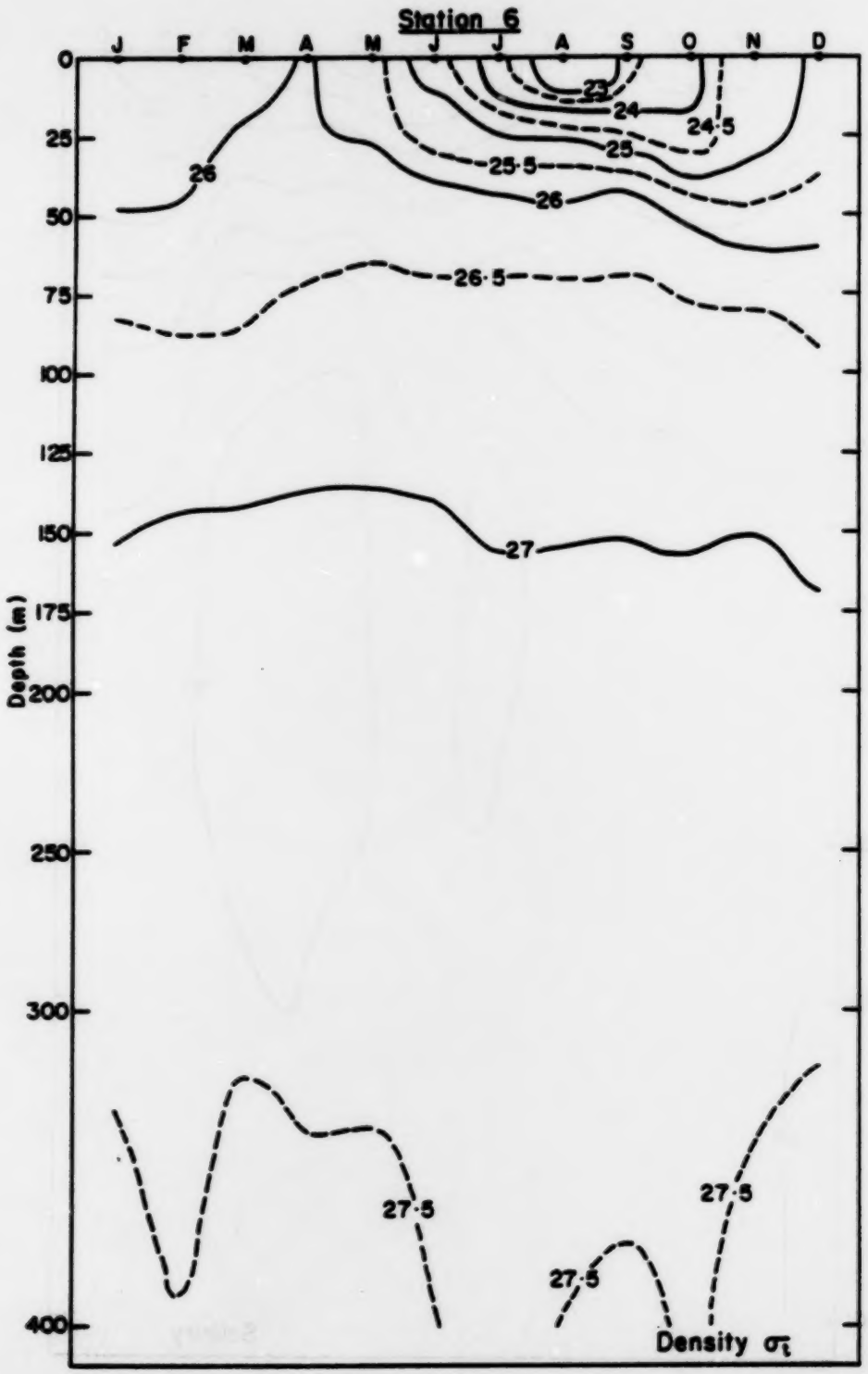

Fig. 4.6c The time-depth distribution of the mean densities at station 6.

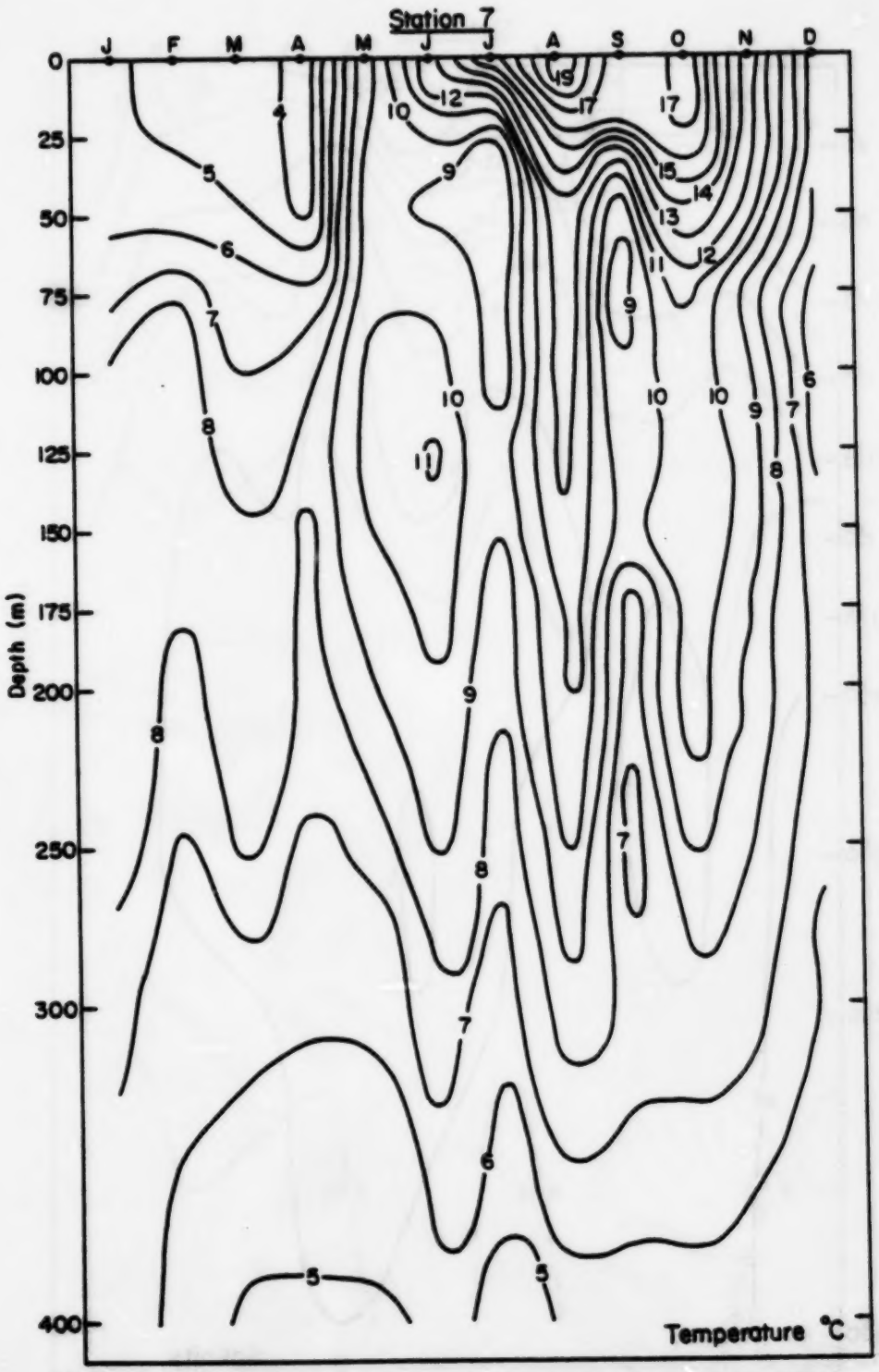

Fig. 4.7a The time-depth distribution of the mean temperatures at station 7.

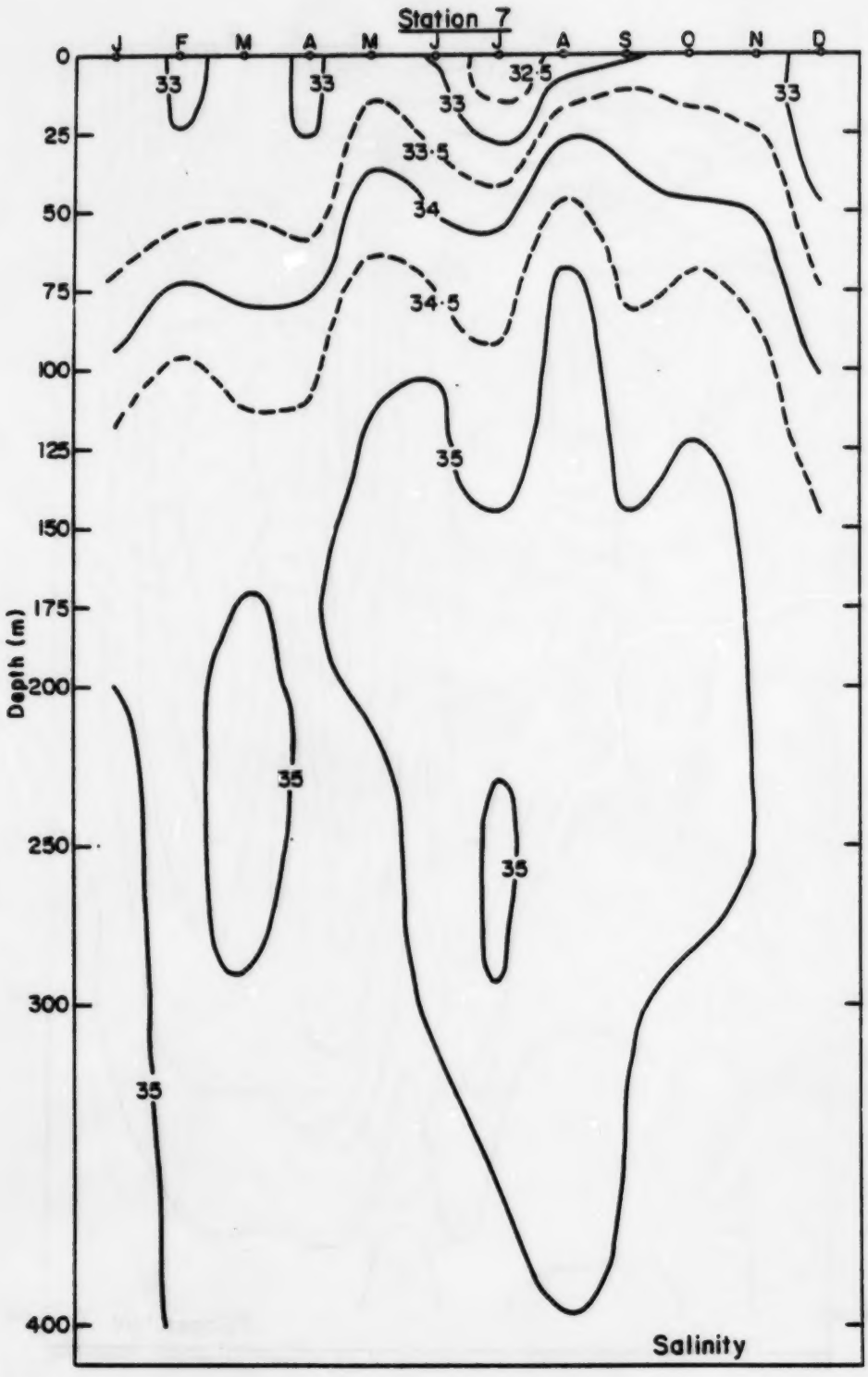

Fig. 4.7b The time-depth distribution of the mean salinities at station 7.

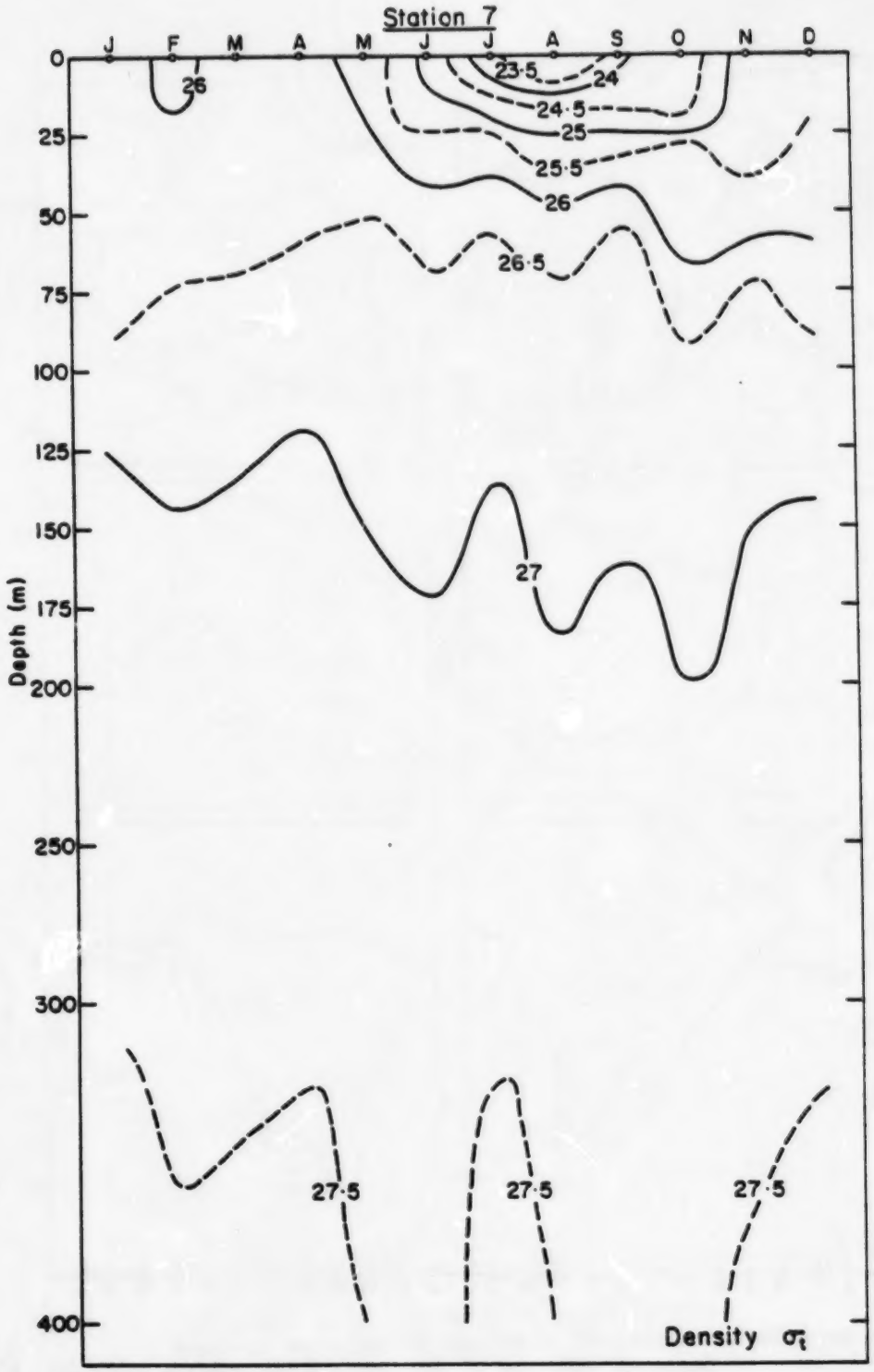

Fig. 4.7c The time-depth distribution of the mean densities at station 7.

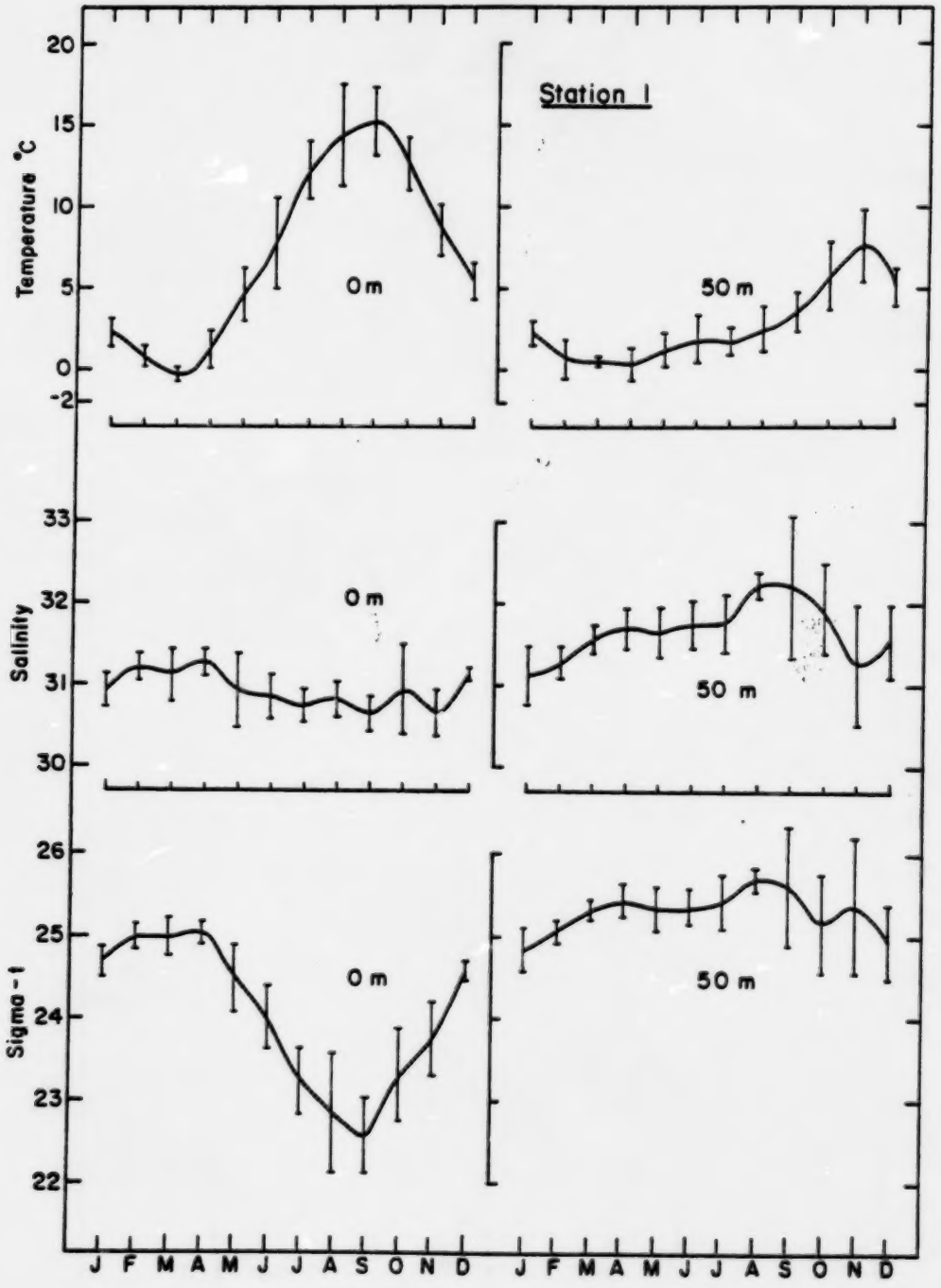

Fig. 5.1 Seasonal variation of the mean temperatures, salinities and densities and their standard deviations at station 1 for 0 m and 50 m.

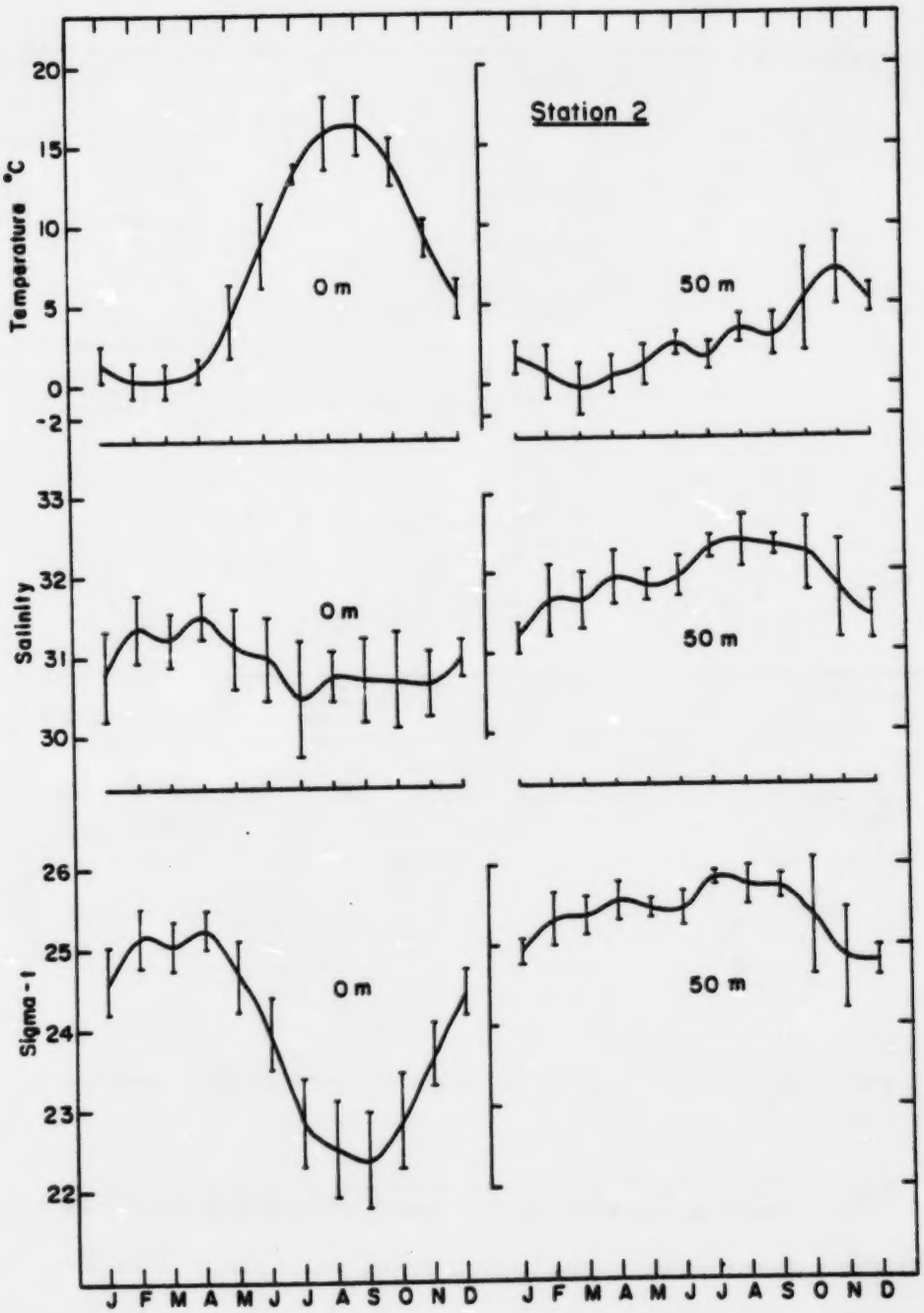

Fig. 5.2 Seasonal variation of the mean temperatures, salinities and densities and their standard deviations at station 2 for 0 m and 50 m.

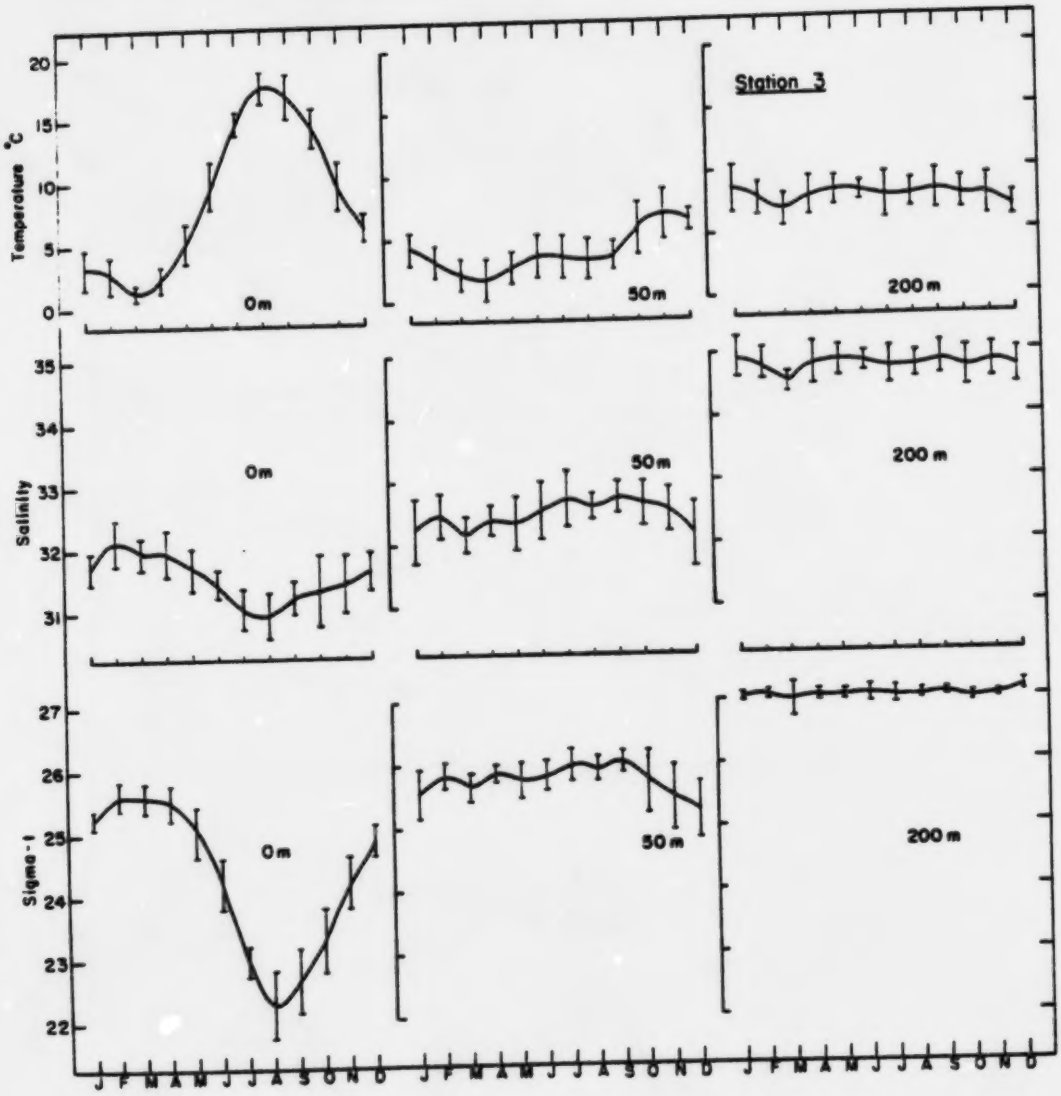

Fig. 5.3 Seasonal variation of the mean temperatures, salinities and densities and their standard deviations at station 3 for 0 m, 50 m and 200 m.

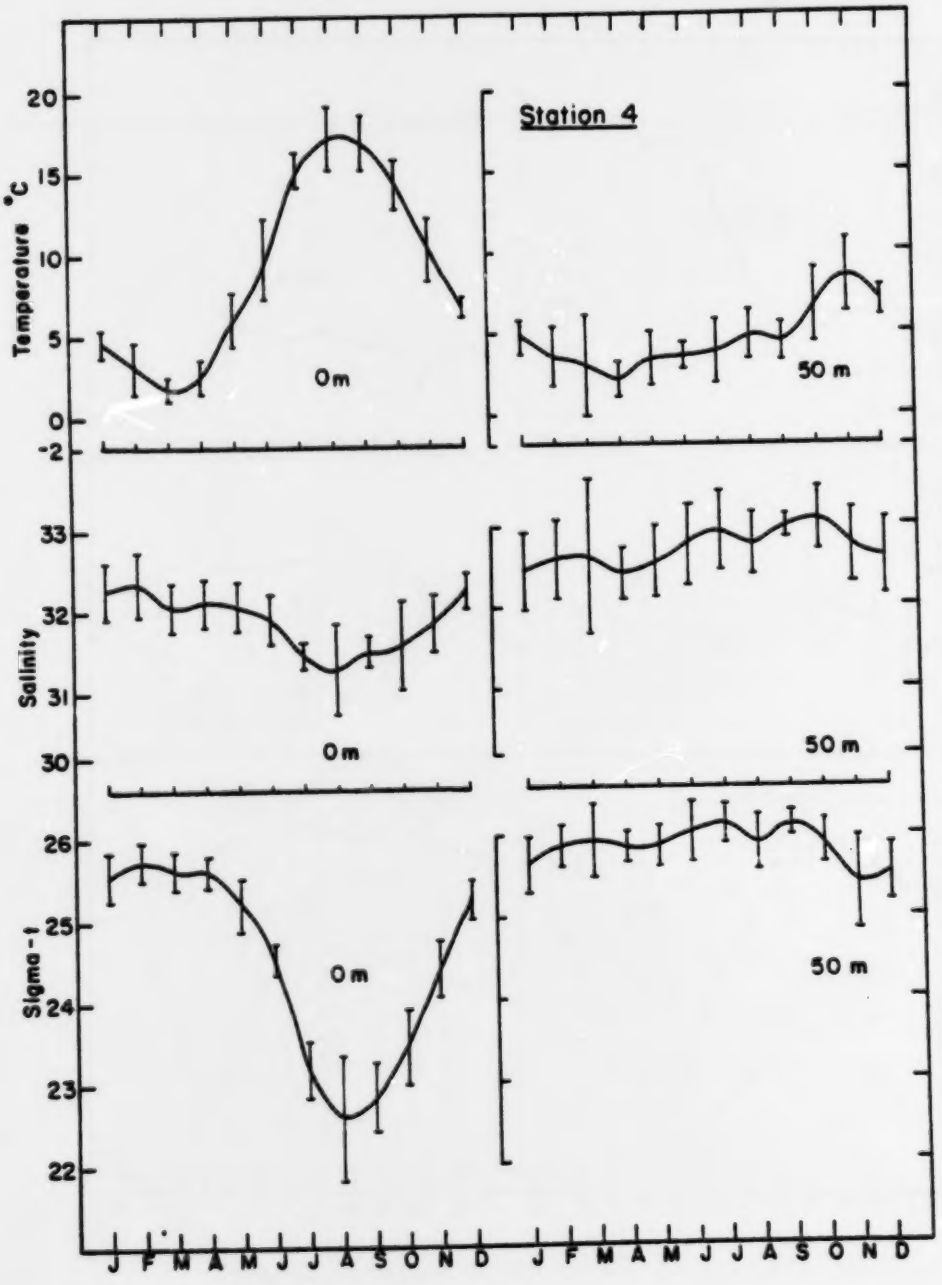

Fig. 5.4 Seasonal variation of the mean temperatures, salinities and densities and their standard deviations at station 4 for 0 m and 50 m.

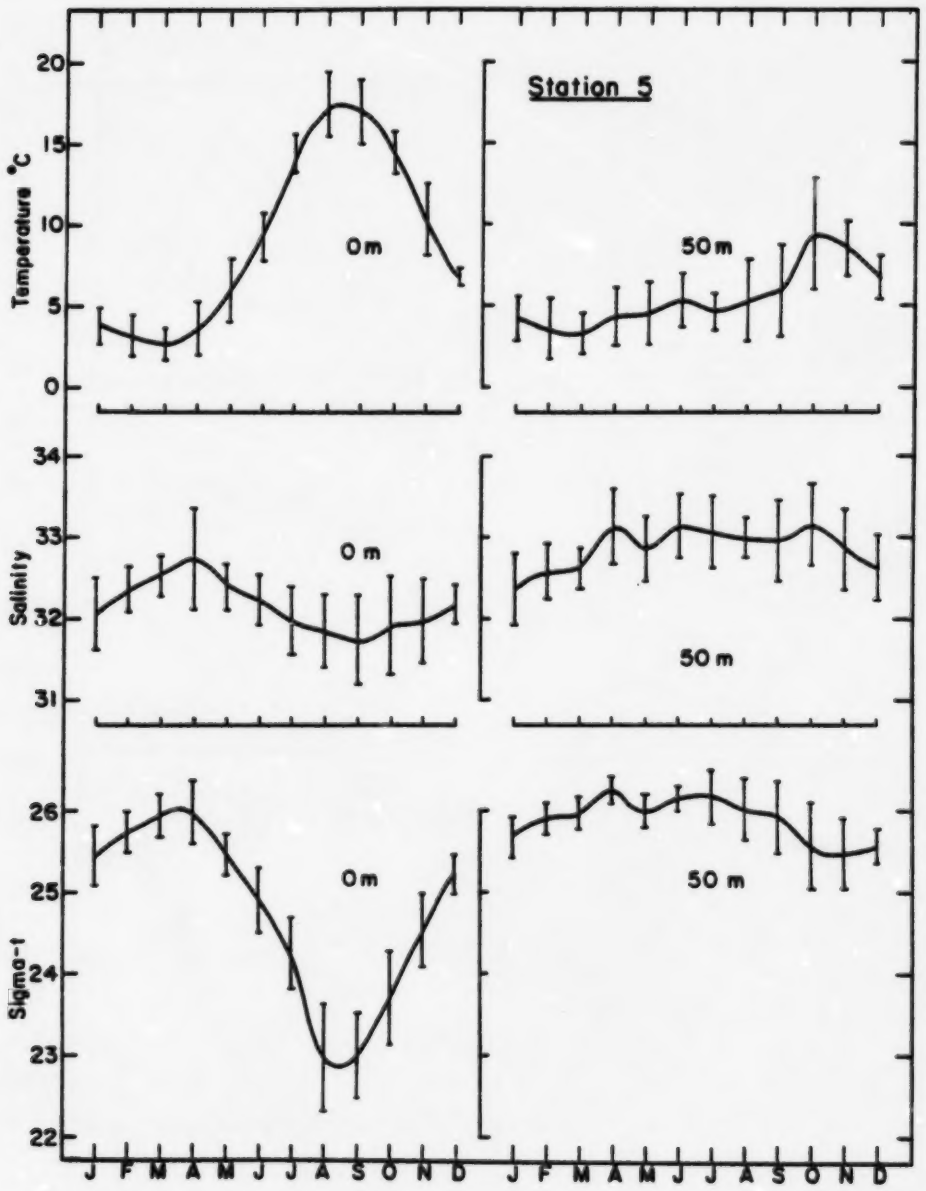

Fig. 5.5 Seasonal variation of the mean temperatures, salinities and densities and their standard deviations at station 5 for 0m and 50 m.

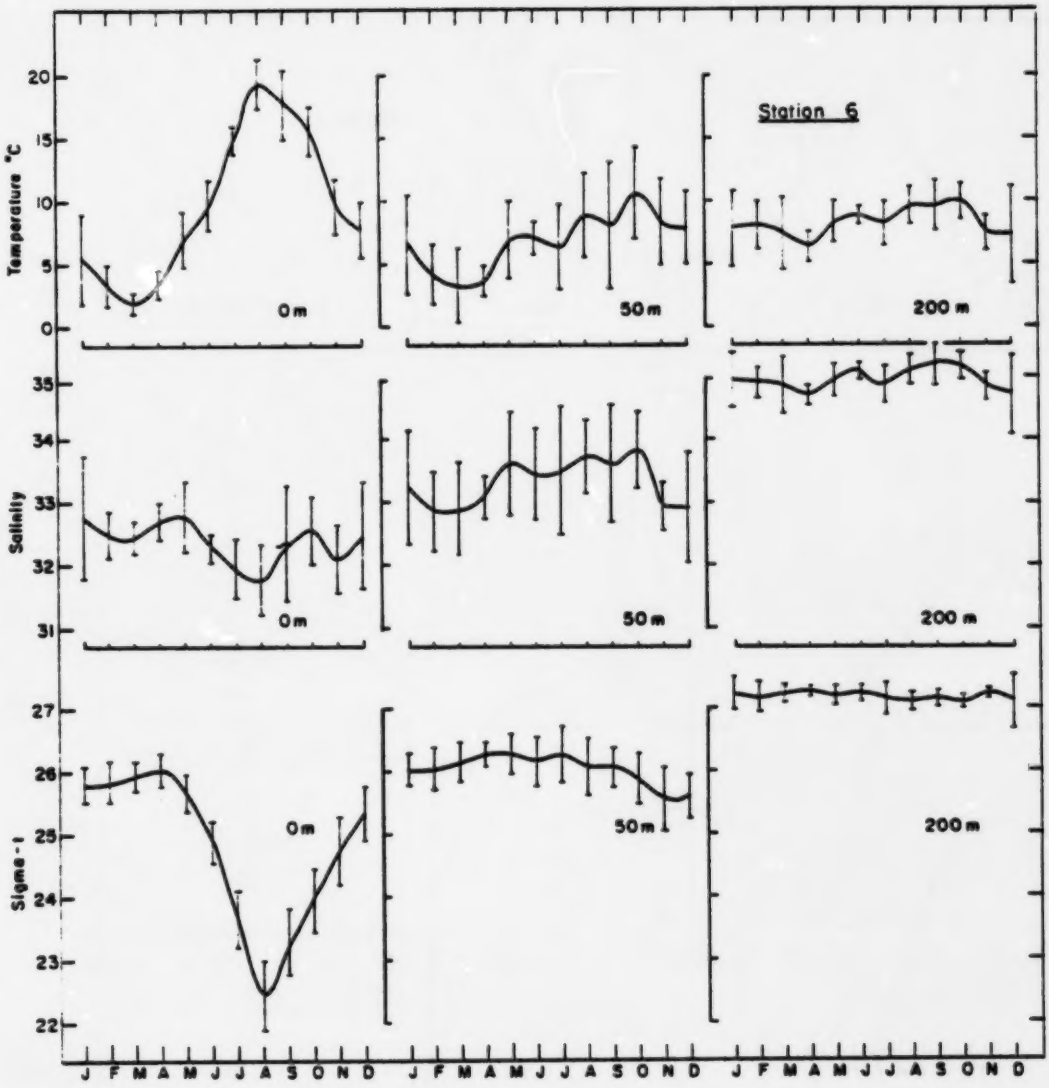

Fig. 5.6 Seasonal variation of the mean temperatures, salinities and densities and their standard deviations at station 6 for 0m, 50 m and 200 m.

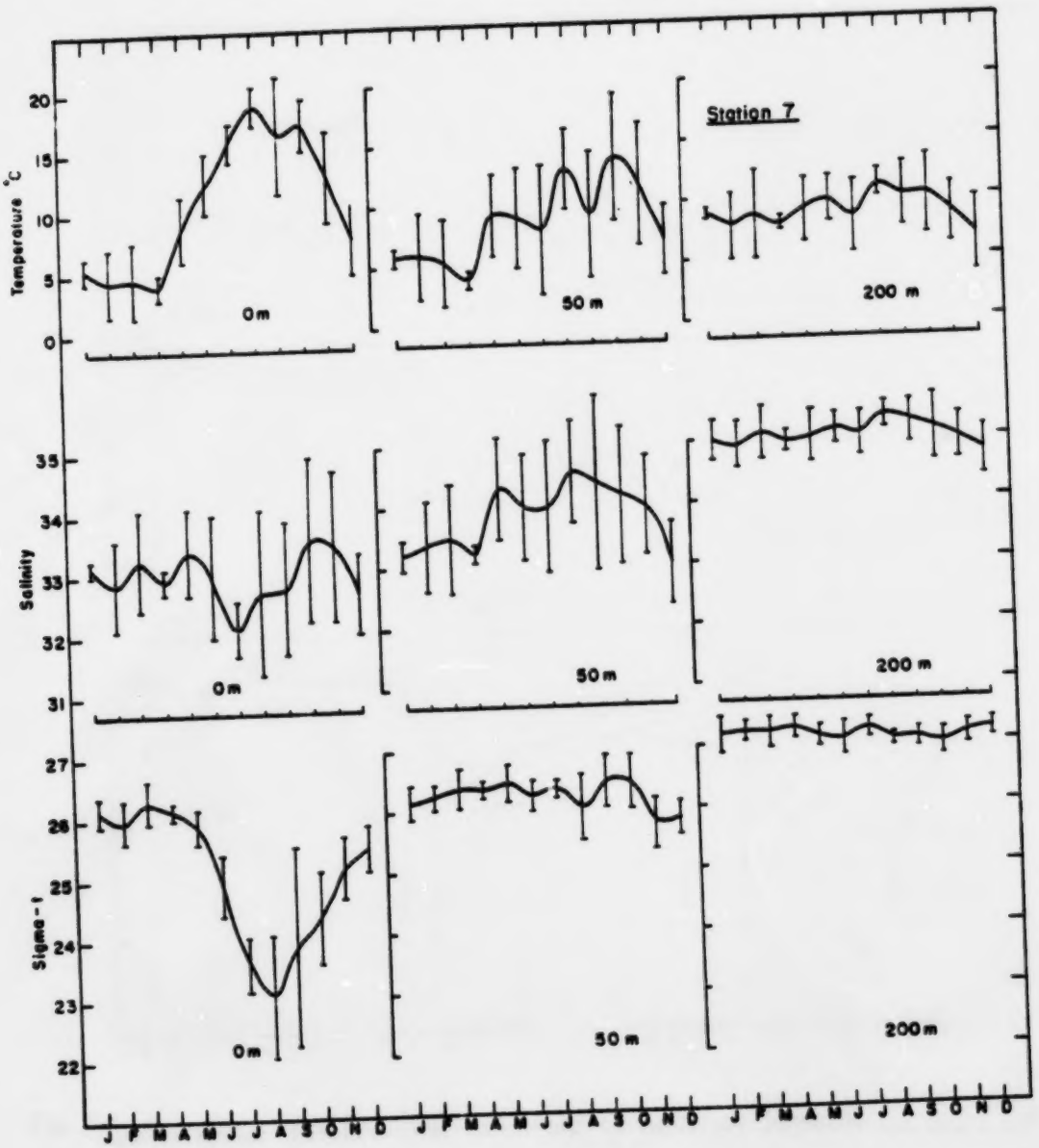

Fig. 5.7 Seasonal variation of the mean temperatures, salinities and densities and their standard deviations at station 7 for 0 m, 50 m and 200 m.

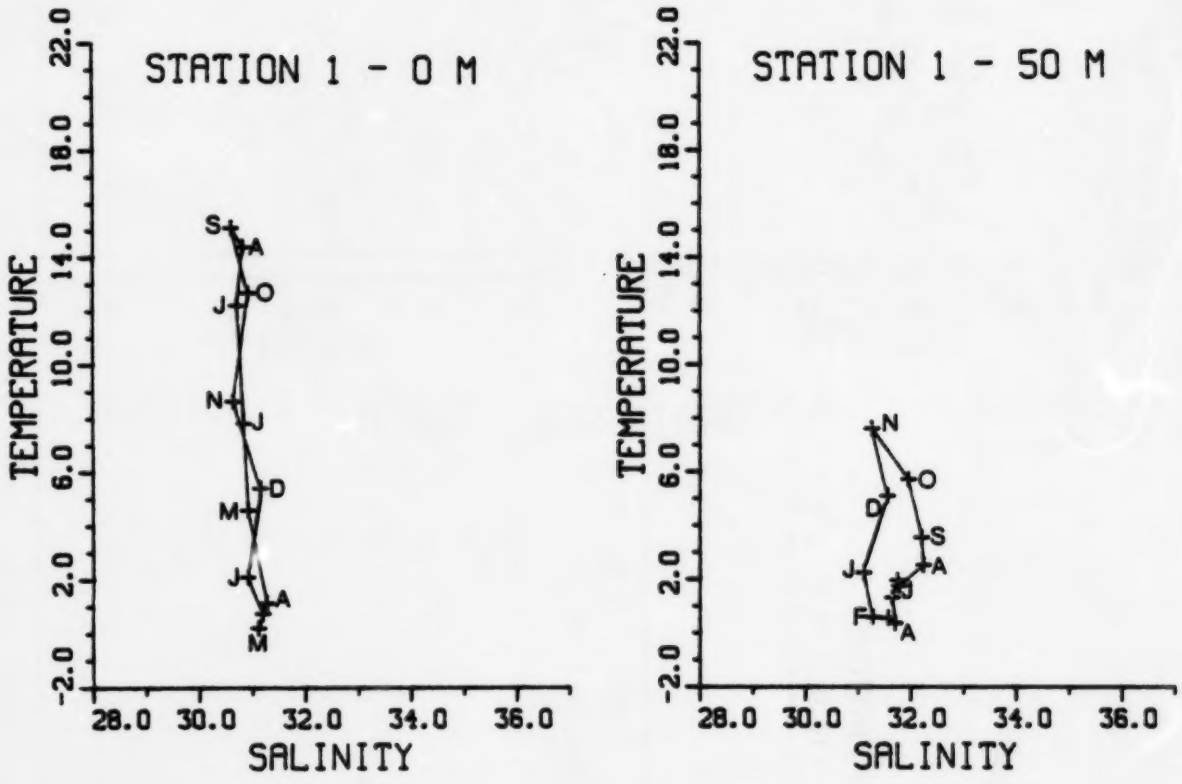

Fig. 6.1 **T,S diagrams showing seasonal variation of the monthly means at 0 m and 50 m for station 1.**

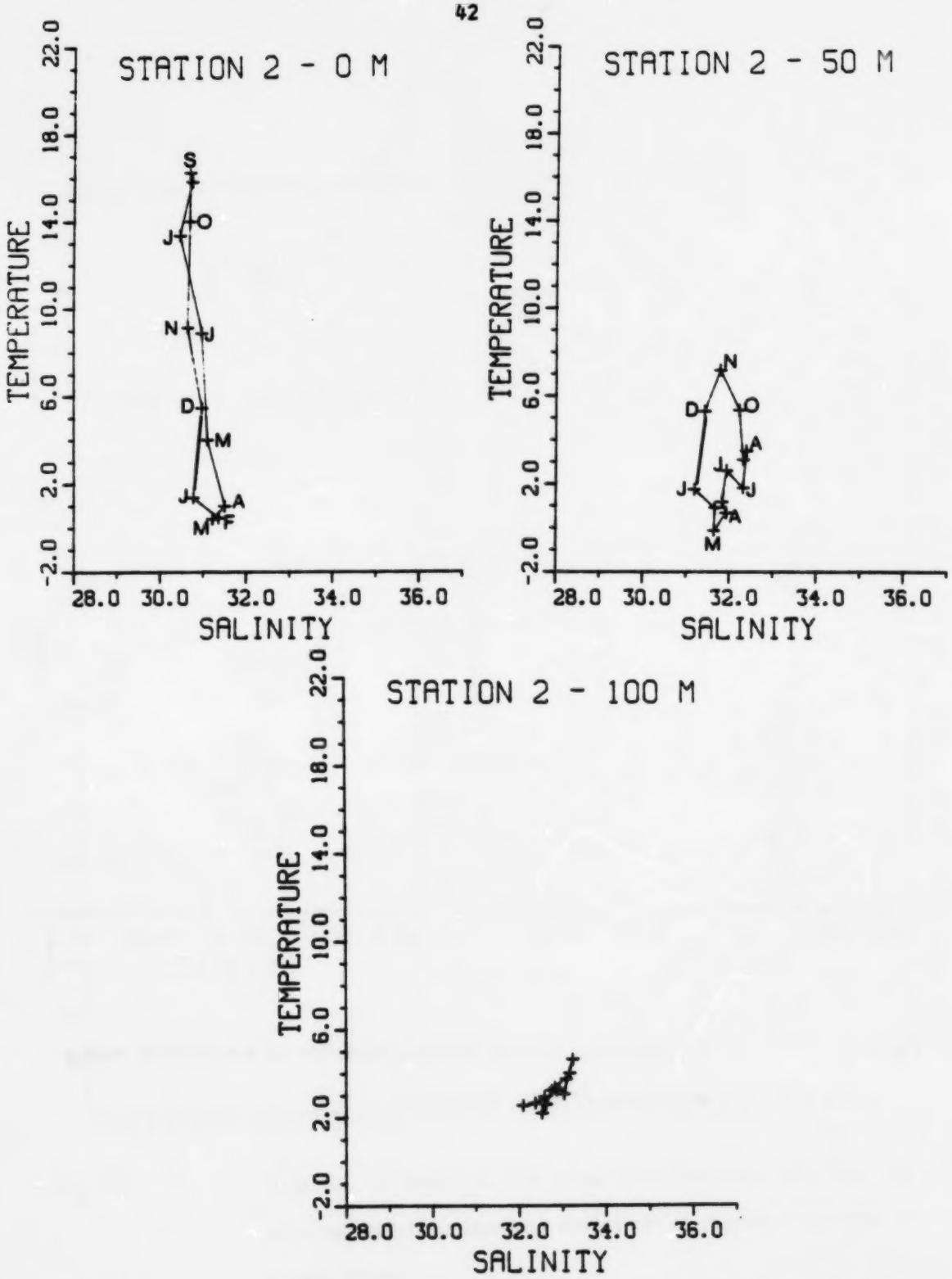

Fig. 6.2 T,S diagrams showing seasonal variation of the monthly means at 0 m, 50 m and 100 m for station 2.

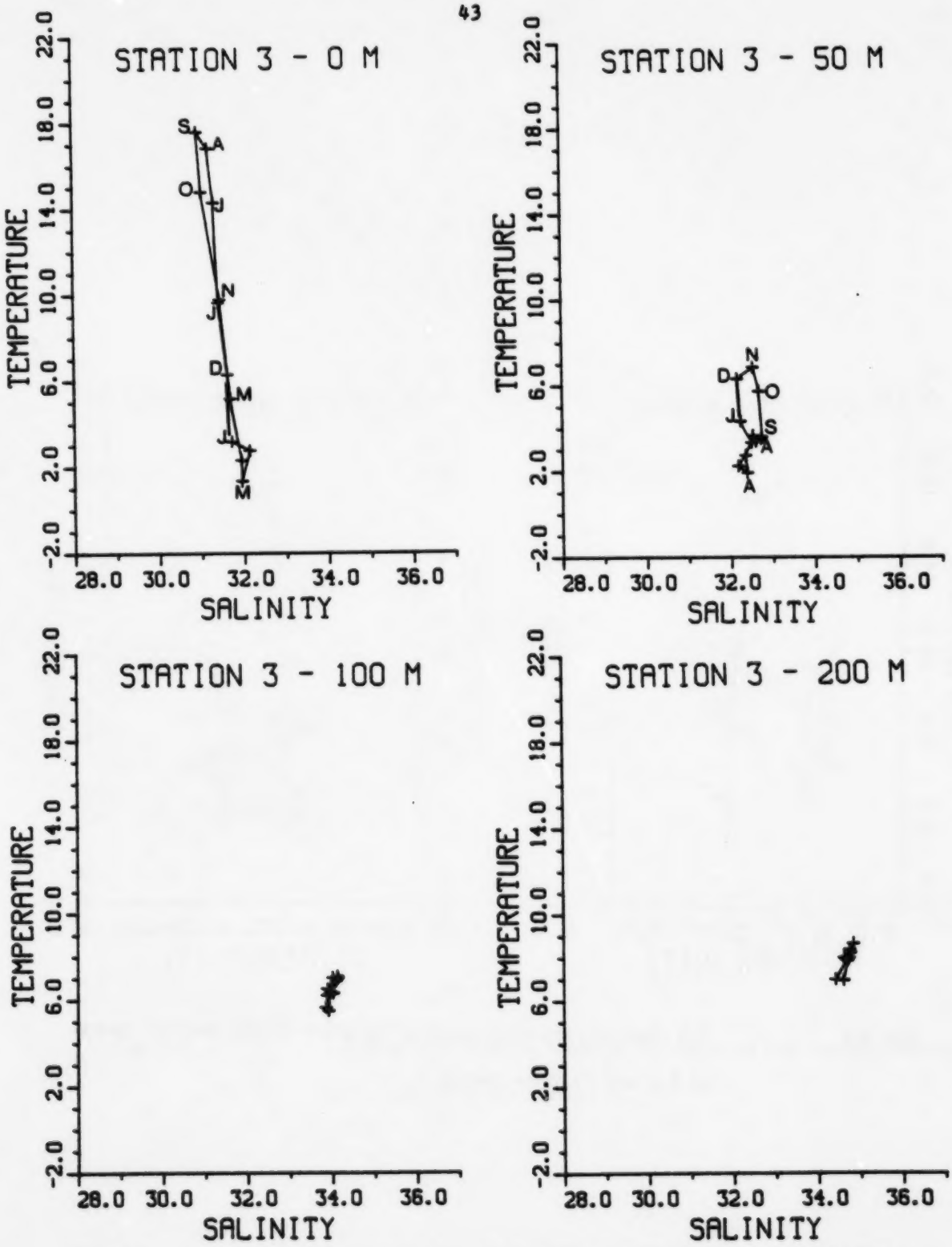

Fig. 6.3 T,S diagrams showing seasonal variation of the monthly means at 0 m, 50 m, 100 m and 200 m for station 3.

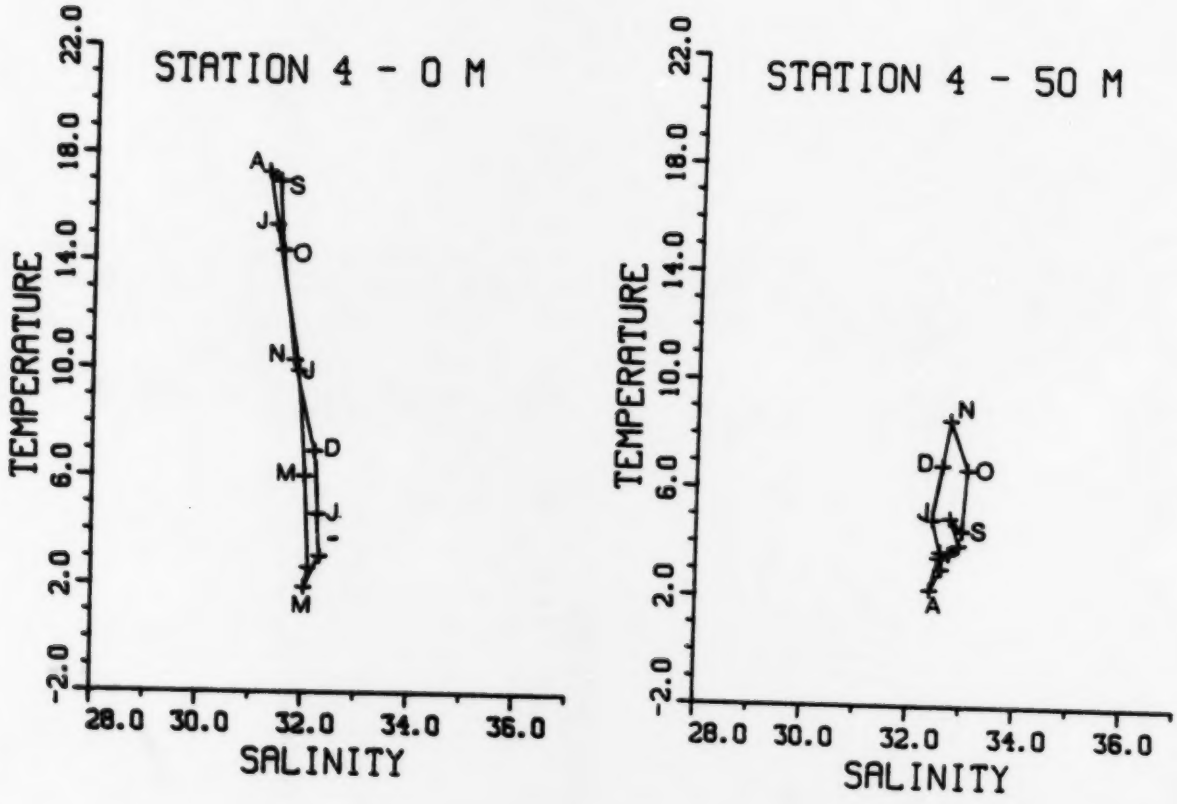

Fig. 6.4 T,S diagrams showing seasonal variation of the monthly means at 0 m and 50 m for station 4.

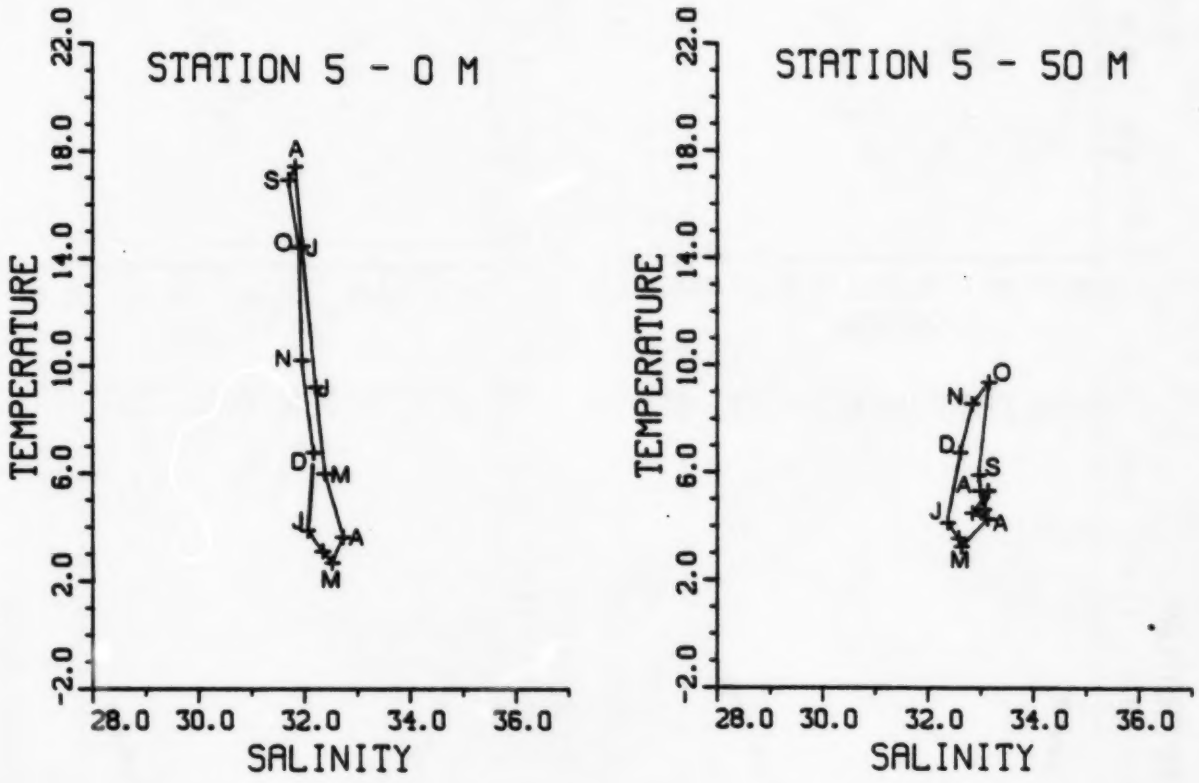

Fig. 6.5 T,S diagrams showing seasonal variation of the monthly means at 0 m and 50 m for station 5.

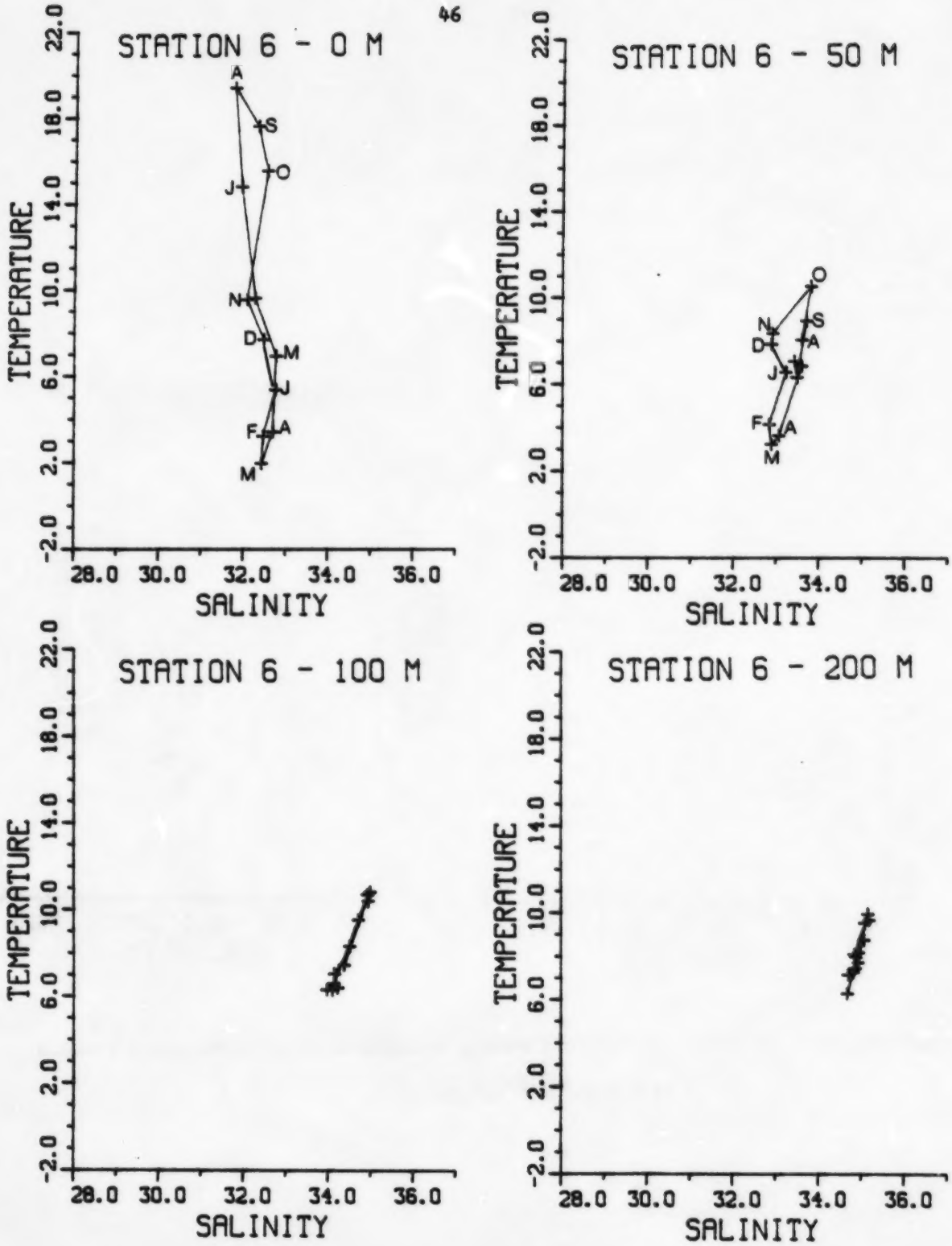

Fig. 6.6 T,S diagrams showing seasonal variation of the monthly means at 0 m, 50 m, 100 m and 200 m for station 6.

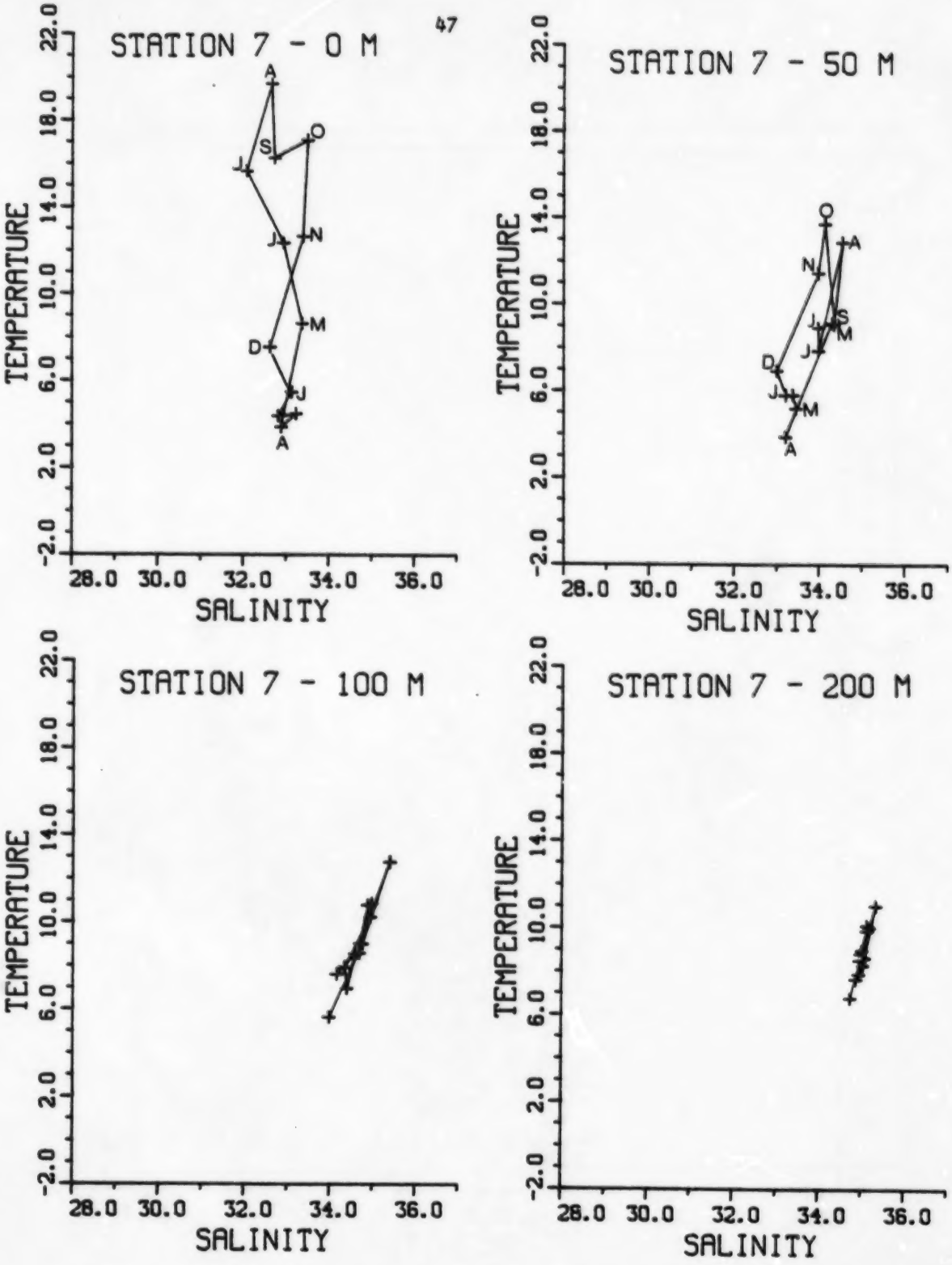

Fig. 6.7 T,S diagrams showing seasonal variation of the monthly means at 0 m, 50 m, 100 m and 200 m for station 7.

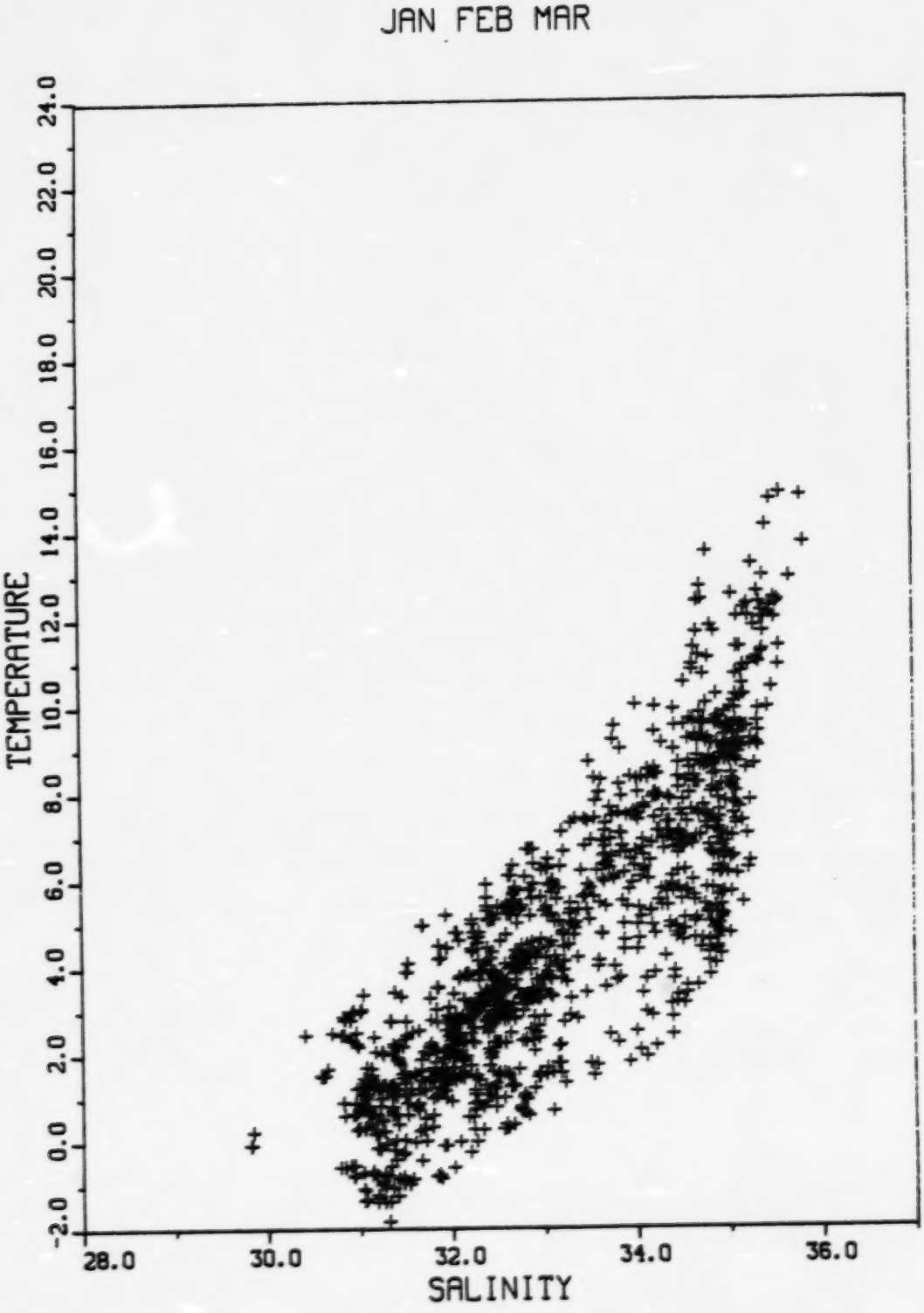

Fig. 7.1 T,S diagram containing all data for January, February and March.

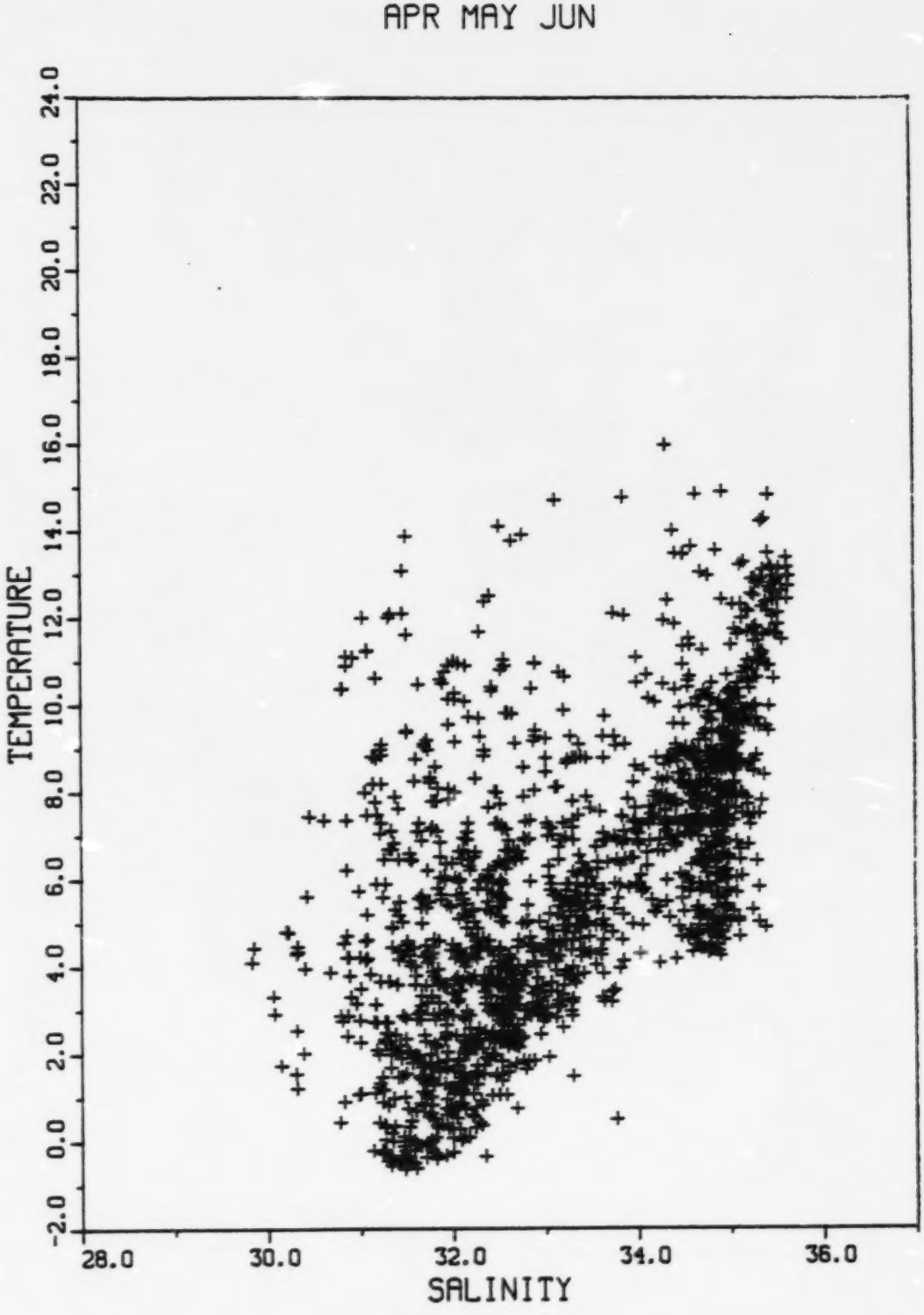

Fig. 7.2 T,S diagram containing all data for April, May and June.

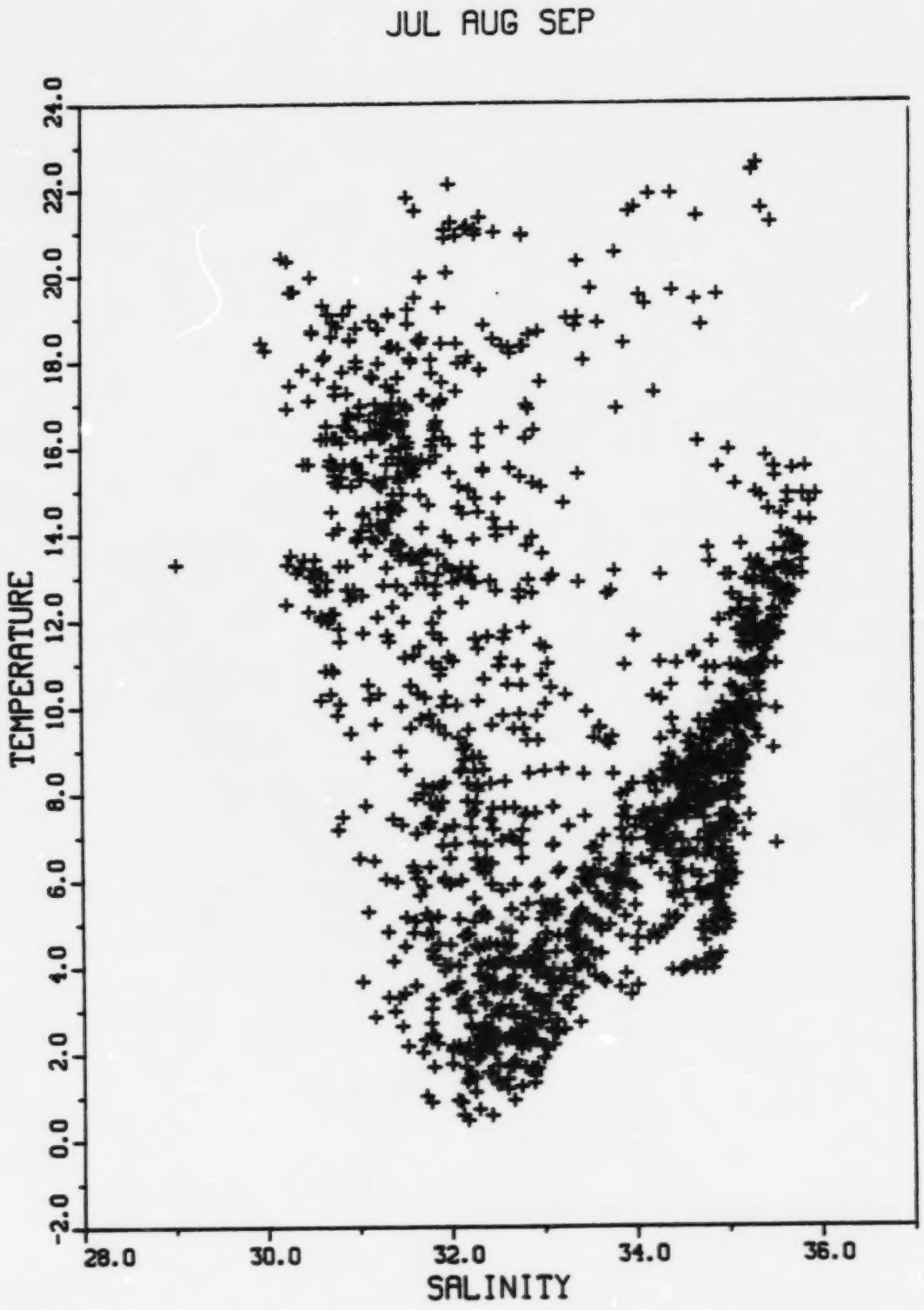

Fig. 7.3 T,S diagram containing all data for July, August and September.

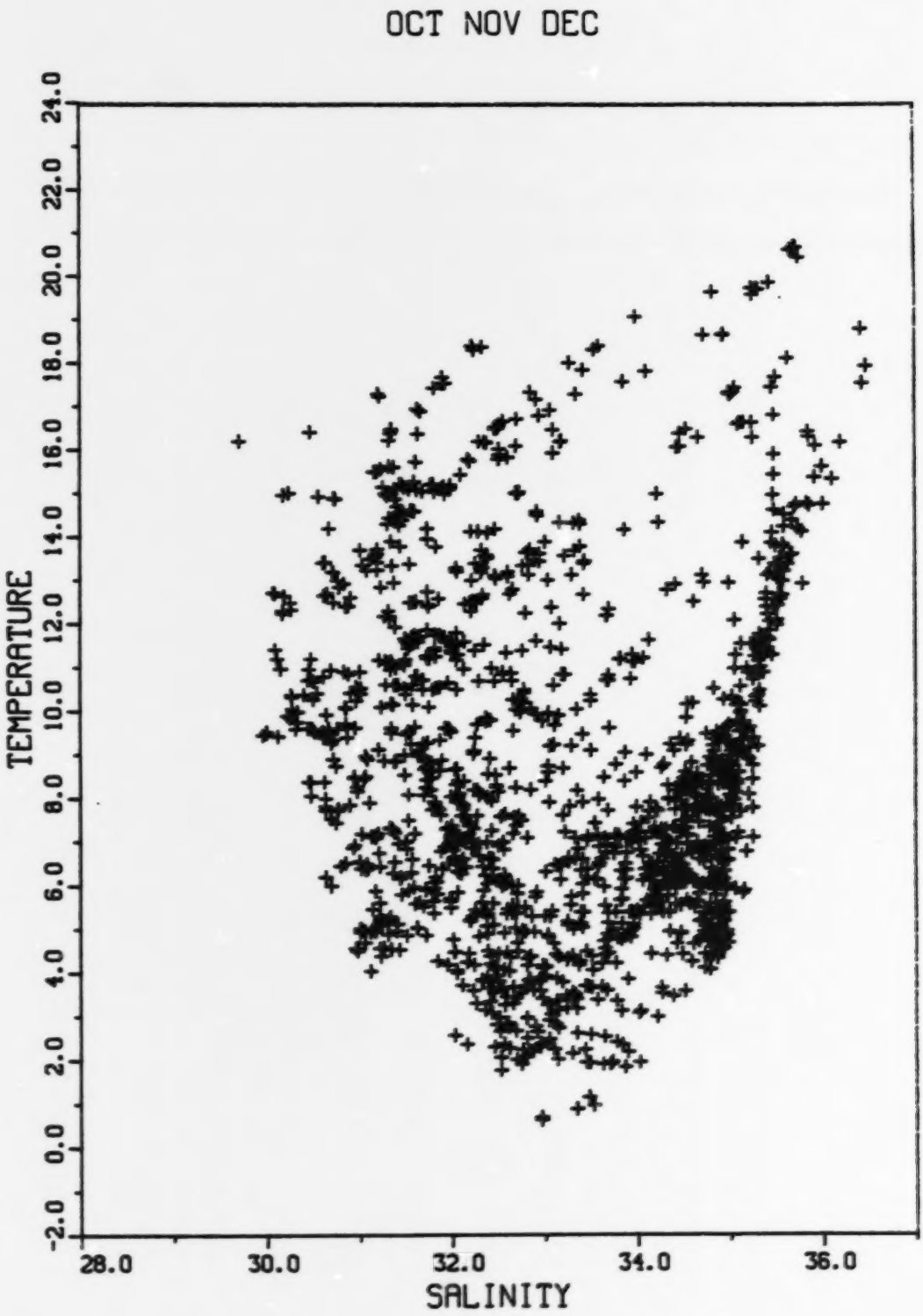

Fig. 7.4 T,S diagram containing all data for October, November and December.

APPENDIX I

Means and standard deviations of temperature, salinity and density together with the number of observations over which the means were calculated.

TEMPERATURE AT STATION 1

MEAN, S.D., NO. OF OBSERVATIONS

DEPTH (M)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
0	2.11	.76	0.22	1.14	4.60	7.83	12.23	14.42	15.13	12.69	8.66	5.41
	.84	.57	.32	1.09	1.56	2.88	1.67	3.13	2.02	1.58	1.58	1.02
	7	7	3	6	8	8	6	11	6	7	7	5
10	1.99	.41	-.23	.72	4.23	5.87	9.24	11.80	14.69	12.19	8.65	5.56
	.67	.98	.32	1.29	1.52	1.88	2.49	4.41	2.16	1.74	1.62	.90
	7	7	3	6	8	8	6	11	6	7	7	5
20	2.00	.41	-.03	.60	2.32	3.58	5.36	6.72	9.59	9.85	8.54	5.59
	.72	.96	.59	1.23	1.19	1.64	2.57	4.31	2.84	3.72	1.71	.91
	7	7	3	6	8	8	6	11	6	7	7	5
30	2.09	.45	.08	.24	1.63	2.49	3.35	3.61	6.40	8.24	8.24	5.39
	.73	.99	.69	1.00	1.17	1.64	2.19	1.50	2.48	4.27	1.88	.97
	7	7	3	6	8	8	6	11	6	7	7	5
50	2.25	.60	.57	.37	1.32	1.96	1.76	2.54	3.56	5.73	7.62	5.11
	.76	1.07	.26	1.02	1.03	1.42	.81	1.42	1.11	2.06	2.16	1.15
	7	7	3	6	8	8	6	11	6	6	7	5
75	2.78	.84	1.66	.73	1.19	1.91	1.38	2.77	2.45	4.61	6.28	4.59
	.61	1.20	.71	1.23	.71	.41	.78	1.55	.74	1.31	2.13	1.16
	6	6	3	5	7	5	6	10	2	4	6	5
100	0.00	0.00	0.00	0.00	0.00	1.55	2.17	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0	0	0	0	0	1	1	0	0	0	0	0

TEMPERATURE AT STATION 2

MEAN, S.D., NO. OF OBSERVATIONS

DEPTH (M)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
0	1.38	.47	.41	1.00	4.02	8.88	13.34	15.82	16.24	14.00	9.14	5.47
	1.10	1.05	1.05	.75	2.29	2.56	.61	2.30	1.88	1.41	1.20	1.24
	5	11	6	7	13	7	6	9	5	9	10	6
10	1.31	.27	-.58	.86	3.32	7.71	12.36	15.28	16.03	13.86	9.18	5.54
	1.06	.99	.69	.80	1.99	2.16	1.53	2.36	1.92	1.48	1.19	1.23
	5	11	6	7	13	7	6	9	5	9	10	6
20	1.28	.31	-.41	.46	2.15	5.54	8.97	9.98	12.90	13.75	9.24	5.60
	1.06	1.01	1.19	.95	1.64	1.37	3.63	2.74	1.66	1.33	1.32	1.26
	5	11	6	7	13	7	6	9	5	9	10	6
30	1.35	.40	-.27	.43	1.68	3.43	5.86	5.16	6.77	11.37	8.83	5.61
	1.01	1.08	1.56	.88	1.39	1.39	2.28	1.63	2.03	2.17	1.98	1.32
	5	11	6	7	13	7	6	9	5	9	10	6
50	1.76	.91	-.13	.68	1.18	2.60	1.82	3.51	3.10	5.36	7.17	5.31
	.95	1.64	1.58	1.15	1.17	.77	.91	.88	1.38	3.23	2.29	.89
	5	11	6	7	13	7	6	9	5	9	10	6
75	2.44	1.69	1.79	1.17	1.36	2.11	2.14	3.35	2.32	3.66	3.83	3.16
	.59	1.26	2.26	1.24	1.32	.39	1.09	2.00	.89	1.37	.94	.67
	5	11	6	7	13	7	6	9	5	9	10	6
100	2.53	2.64	2.93	2.18	2.59	3.22	3.06	4.62	3.73	3.99	3.34	3.22
	.55	1.50	2.51	1.88	1.63	1.43	1.70	2.14	1.83	1.28	.76	1.16
	5	10	6	7	12	7	6	9	5	9	10	6
125	3.96	3.80	4.72	4.13	4.70	5.25	3.78	6.89	5.32	5.12	4.32	3.99
	2.05	1.72	3.11	2.30	2.06	1.82	2.03	1.46	2.31	1.25	1.23	1.45
	5	9	5	6	10	6	5	7	5	4	7	6
150	3.57	4.50	5.50	2.94	6.23	6.45	5.09	8.46	8.53	0.00	6.24	6.11
	.90	1.59	3.17	0.00	2.34	0.00	3.57	1.48	0.00	0.00	0.00	0.00
	2	4	5	1	7	1	2	2	1	0	1	1

TEMPERATURE AT STATION 3

MEAN, S.D., NO. OF OBSERVATIONS

DEPTH (M)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
0	3.20	2.79	1.36	2.33	5.20	9.82	14.84	17.64	16.88	14.34	9.68	6.32
	1.58	1.47	.50	.97	1.48	1.98	.88	1.25	1.77	1.57	1.81	1.09
	4	11	5	7	12	8	8	13	6	9	10	6
10	3.18	2.76	1.11	2.25	4.90	9.95	14.48	17.21	16.80	14.30	9.83	6.31
	1.42	1.46	.19	1.03	1.38	2.33	.81	1.56	1.80	1.57	1.65	1.06
	4	11	5	7	12	8	8	13	6	9	10	6
20	3.19	2.76	1.17	2.04	4.45	8.34	10.59	11.50	14.26	14.16	9.81	6.39
	1.42	1.49	.19	1.13	1.21	2.57	2.72	4.27	3.85	1.37	1.67	1.03
	4	11	5	7	12	8	8	13	6	9	10	6
30	3.32	2.94	1.26	2.12	3.46	5.58	5.92	5.40	7.97	11.15	9.84	6.60
	1.48	1.48	.15	1.13	1.21	2.13	1.50	1.36	2.71	2.57	1.69	.87
	4	11	5	7	12	8	8	13	6	9	10	6
50	4.34	3.34	2.25	1.93	2.75	3.68	3.52	3.40	3.62	5.73	6.86	6.32
	1.23	1.56	1.44	1.59	1.34	1.75	1.72	1.62	1.20	2.09	1.94	.81
	4	11	5	7	12	8	8	13	6	9	10	6
75	5.67	5.47	3.61	4.78	4.40	5.13	4.81	4.21	5.16	5.20	5.13	4.42
	1.44	2.18	.96	2.16	2.14	1.46	2.12	1.11	1.36	1.81	1.42	1.43
	4	11	4	7	11	8	8	13	6	9	10	6
100	7.10	6.89	5.65	6.21	6.51	7.03	6.32	6.30	7.02	6.25	6.39	5.50
	2.08	1.71	.78	2.46	1.96	.87	2.33	1.32	1.29	1.40	1.51	1.65
	4	11	4	7	11	8	8	13	6	9	9	6
125	7.96	7.64	6.74	7.11	7.78	7.94	7.34	7.38	8.02	7.02	7.37	6.45
	2.05	1.38	.88	2.44	1.82	.69	2.05	1.19	1.29	1.35	1.33	1.46
	4	11	4	7	11	8	8	13	6	9	9	6
150	8.33	7.94	7.07	7.40	8.12	8.31	7.61	8.05	8.39	7.54	7.92	6.88
	1.77	1.23	.94	2.26	1.53	.87	2.01	.97	1.34	1.36	1.18	1.16
	4	11	4	7	11	8	8	13	6	9	9	6
175	8.45	8.01	7.05	7.46	8.14	8.33	7.73	8.08	8.30	7.81	8.03	6.93
	1.84	1.22	1.12	2.13	1.45	.82	2.33	1.03	1.45	1.25	1.29	1.01
	4	10	4	7	11	8	8	12	6	9	9	6
200	8.64	7.98	6.97	7.99	8.35	8.26	7.87	8.01	8.20	7.98	7.86	6.93
	1.90	1.25	1.17	1.63	1.13	.70	1.98	1.11	1.55	1.33	1.54	.98
	4	8	4	6	10	8	8	12	6	7	7	6
250	8.28	7.79	6.82	7.79	8.10	8.09	7.61	8.13	8.35	8.09	7.71	8.10
	1.50	1.05	1.24	.80	1.13	.63	2.36	1.43	.89	.41	1.49	0.00
	4	3	4	3	8	6	5	4	4	3	4	1

TEMPERATURE AT STATION 4

MEAN, S.D., NO. OF OBSERVATIONS

DEPTH (M)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
0	4.62	3.06	1.89	2.63	6.02	9.92	15.34	17.30	16.97	14.39	10.32	6.94
	.72	1.55	.73	1.09	1.73	2.46	1.09	1.95	1.72	1.49	1.89	.64
	5	12	5	8	13	7	7	9	6	9	10	7
10	4.60	3.16	1.60	2.60	5.58	8.74	15.17	16.73	16.85	14.30	10.29	6.96
	.70	1.40	.31	1.09	1.57	2.20	1.33	3.05	1.85	1.53	1.88	.68
	5	12	5	8	13	7	7	9	6	9	10	7
20	4.60	3.11	1.61	2.44	5.35	6.65	10.49	11.80	13.38	13.92	10.30	7.15
	.70	1.54	.28	.97	1.50	.90	3.25	3.46	3.28	1.58	1.87	.85
	5	12	5	8	13	7	7	9	6	9	10	7
30	4.70	3.24	1.71	2.20	4.94	5.24	6.75	7.23	8.38	12.84	10.26	7.18
	.73	1.66	.45	1.08	1.67	1.73	1.48	3.06	2.79	3.37	1.81	.91
	5	12	5	8	13	7	7	9	6	9	10	7
50	4.90	3.71	3.08	2.30	3.50	3.65	3.95	4.96	4.50	6.75	8.57	6.90
	1.08	1.87	3.03	1.09	1.69	.80	1.92	1.51	1.24	2.39	2.36	.93
	5	12	5	8	12	6	6	9	6	9	10	7
75	7.58	5.86	3.97	4.23	4.89	4.97	4.34	5.67	6.80	5.87	6.02	6.69
	1.53	2.35	.70	2.27	2.18	.57	2.68	1.83	1.69	2.54	1.49	1.82
	3	7	4	5	10	6	5	3	3	3	4	4

TEMPERATURE AT STATION 5

MEAN, S.D., NO. OF OBSERVATIONS

DEPTH (M)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
0	3.88	3.11	2.68	3.64	6.00	9.22	14.47	17.44	16.94	14.43	10.22	6.78
	1.05	1.33	.96	1.66	1.96	1.56	1.19	1.98	1.97	1.37	2.26	.56
	5	11	5	8	13	6	6	9	6	9	10	5
10	3.98	3.12	2.89	3.61	5.85	8.95	13.17	16.88	16.57	14.46	10.27	6.90
	1.26	1.33	1.01	1.58	1.98	1.35	1.51	2.28	2.08	1.45	2.24	.68
	5	11	5	8	13	6	6	9	6	9	10	5
20	4.01	3.20	2.89	3.63	5.44	7.87	10.01	12.90	14.02	14.12	10.34	7.30
	1.25	1.40	1.02	1.60	1.86	1.70	2.74	3.24	1.99	1.76	2.36	.80
	5	11	5	8	13	6	6	9	6	9	10	5
30	4.04	3.29	2.94	3.62	5.07	7.13	7.29	9.10	9.83	13.50	10.40	7.41
	1.29	1.54	1.06	1.59	1.84	1.80	1.88	3.10	2.15	2.77	2.61	.93
	5	11	5	8	13	6	6	9	6	9	10	5
50	4.14	3.57	3.27	4.30	4.51	5.35	4.65	5.35	5.94	9.40	8.58	6.76
	1.38	1.79	1.26	1.88	1.96	1.73	1.08	2.54	2.82	3.50	1.68	1.39
	5	11	5	8	13	6	6	9	6	9	10	5
75	5.81	5.28	5.53	5.54	5.74	5.50	5.19	5.37	5.78	5.72	5.86	5.90
	1.92	1.54	3.11	2.73	3.24	2.12	2.43	1.08	2.78	2.34	2.30	2.37
	5	10	5	7	12	4	6	8	5	9	10	5
100	7.62	7.50	0.00	8.99	6.10	0.00	0.00	0.00	8.03	.70	3.51	10.17
	0.00	0.00	0.00	0.00	6.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	1	1	0	1	2	0	0	0	1	1	1	1

TEMPERATURE AT STATION 6

MEAN, S.D., NO. OF OBSERVATIONS

DEPTH (M)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
0	5.37	3.22	1.96	3.42	6.93	9.62	14.80	19.40	17.62	15.53	9.55	7.70
	3.56	1.54	.82	1.02	2.25	1.95	1.08	1.91	2.74	1.98	2.17	2.21
	6	10	4	5	13	5	4	9	6	9	8	6
10	5.17	3.19	1.97	3.41	6.51	9.23	13.82	18.87	16.80	15.53	9.55	8.06
	3.62	1.58	.88	1.04	2.34	1.58	1.19	2.21	3.54	1.98	2.17	2.27
	6	10	4	5	13	5	4	9	6	9	8	6
20	5.48	3.30	2.49	3.38	6.01	8.21	11.36	15.09	14.38	15.92	9.80	8.32
	3.65	1.80	1.54	1.02	2.65	1.37	2.12	3.02	7.25	2.20	2.49	2.48
	6	10	4	5	13	5	4	9	6	9	8	6
30	5.70	3.47	2.95	3.48	6.49	7.23	8.05	10.92	12.04	15.68	9.59	8.40
	3.82	2.07	2.44	1.05	2.77	1.41	2.20	3.49	7.55	2.34	2.90	2.60
	6	10	4	5	13	5	4	9	6	9	8	6
50	6.56	4.15	3.23	3.64	6.86	7.07	6.32	8.93	8.05	10.53	8.35	7.86
	3.93	2.42	2.95	1.22	3.08	1.30	3.39	3.43	5.06	3.64	3.48	2.91
	6	10	4	5	13	5	4	9	6	9	8	6
75	7.35	5.63	4.57	5.46	7.70	8.31	7.06	9.77	9.76	9.84	6.08	6.45
	3.72	3.32	3.75	2.86	3.41	2.32	3.44	3.50	4.61	3.63	2.22	4.93
	6	10	4	5	13	5	4	9	6	9	8	6
100	6.41	6.32	6.62	7.05	8.32	9.54	7.46	10.83	10.41	10.71	6.55	6.31
	4.67	2.80	4.07	2.60	2.94	1.53	3.83	2.92	3.83	3.74	2.92	6.32
	6	10	4	5	13	5	4	9	6	9	8	6
125	6.80	7.22	7.47	7.63	8.86	10.15	7.40	10.74	10.58	10.79	7.01	6.51
	4.75	2.46	4.30	1.82	2.66	1.09	2.90	2.37	3.27	2.47	2.38	5.61
	6	10	4	5	12	5	4	9	6	9	8	6
150	7.26	7.91	7.65	7.72	8.82	9.92	7.35	10.42	10.57	10.68	7.51	6.85
	4.18	1.96	4.07	1.56	2.39	1.04	2.29	2.05	2.55	1.74	2.17	5.00
	6	10	4	5	12	5	4	9	6	9	8	6
175	7.56	8.03	7.50	6.86	8.55	9.34	7.99	10.00	10.25	10.40	7.26	7.14
	3.45	1.89	3.42	1.19	1.95	.94	1.92	1.71	2.24	1.47	1.84	4.33
	6	10	4	5	12	5	4	9	6	9	8	6
200	7.73	7.99	7.48	6.31	8.21	8.77	8.11	9.56	9.69	9.96	7.30	7.17
	2.94	1.95	2.86	1.18	1.58	.75	1.73	1.44	2.11	1.29	1.41	3.95
	6	10	4	5	12	5	4	9	6	9	7	6
250	7.20	7.07	6.32	5.77	7.38	7.63	7.06	8.41	8.24	8.90	6.69	6.64
	2.15	1.29	2.93	1.38	1.55	.37	1.71	.97	2.13	1.17	1.06	3.18
	6	9	3	5	12	5	4	9	6	9	7	6
300	6.91	6.36	4.59	5.08	6.36	6.65	6.26	7.51	7.29	7.46	5.94	6.54
	1.60	.95	1.69	.95	.87	.37	1.42	.96	1.44	1.06	.78	2.43
	6	8	2	5	10	4	4	7	6	7	7	5
400	5.81	4.98	4.39	4.69	5.20	5.52	5.13	5.92	5.72	6.01	5.01	5.54
	1.13	.83	1.17	.60	.39	.29	1.02	.69	.94	.73	.47	1.33
	5	5	2	5	8	4	4	7	6	5	7	5
500	4.45	4.77	4.28	4.81	4.85	4.92	4.18	4.97	4.58	5.14	4.53	4.50
	0.00	0.00	.68	.32	.30	.21	.11	.25	.50	.38	.24	.08
	1	1	2	4	5	3	2	3	4	5	3	3

TEMPERATURE AT STATION 7

MEAN, S.D., NO. OF OBSERVATIONS

DEPTH (M)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
0	5.49	4.39	4.49	3.88	8.66	12.38	15.70	19.74	16.31	17.14	12.68	7.56
	1.07	2.84	3.12	.98	2.75	2.57	1.63	1.60	4.73	2.23	3.86	2.90
	2	11	4	6	8	8	5	9	5	9	10	5
10	5.49	4.37	4.48	3.76	8.52	12.13	12.94	18.99	16.84	17.13	12.79	7.48
	1.07	2.98	3.16	.99	2.75	2.88	2.01	2.54	5.13	2.25	3.82	2.98
	2	11	4	6	8	8	5	9	5	9	10	5
20	5.52	4.64	4.63	3.84	8.80	10.84	10.90	16.37	16.35	17.15	12.88	7.80
	1.04	2.64	3.08	.94	3.00	3.98	2.85	3.82	5.24	2.23	3.85	2.96
	2	11	4	6	8	8	5	9	5	9	10	5
30	5.63	5.07	4.76	3.91	9.03	9.78	8.02	14.67	12.99	16.67	12.62	7.90
	.88	2.89	3.16	.95	3.54	4.67	3.41	4.81	5.49	2.57	4.36	3.04
	2	11	4	6	8	8	5	9	5	9	10	5
50	5.81	5.82	5.21	3.88	9.15	8.93	7.87	12.89	9.08	13.74	11.46	6.94
	.71	3.63	3.63	.72	3.44	4.19	5.37	3.28	5.15	5.17	5.06	2.88
	2	11	4	6	8	8	5	9	5	9	10	5
75	6.94	7.49	6.55	6.12	9.81	9.37	8.83	12.91	8.72	11.04	8.46	5.81
	.56	4.10	4.32	1.13	3.18	4.02	4.48	1.68	5.68	6.14	5.25	4.55
	2	11	4	6	8	8	5	9	5	9	10	5
100	7.63	8.57	6.98	7.96	10.25	10.88	8.59	12.79	9.05	10.81	9.03	5.66
	.40	3.98	4.31	1.05	2.56	2.68	3.91	.68	5.13	5.26	4.00	5.31
	2	11	4	6	8	8	5	9	5	9	10	5
125	8.01	8.73	7.45	8.11	10.39	11.01	9.33	12.40	9.22	10.97	9.21	5.93
	1.01	3.62	4.08	.68	2.66	1.81	3.94	.93	4.44	4.48	3.46	4.95
	2	11	4	6	8	8	5	9	5	9	10	5
150	8.59	8.54	8.19	7.94	10.02	10.82	9.04	11.96	9.77	10.95	9.17	6.24
	1.83	3.13	3.85	.90	2.79	1.70	3.34	1.24	3.28	3.71	3.01	4.48
	2	11	4	6	8	8	5	9	5	9	10	5
175	8.51	8.10	8.56	7.96	9.49	10.45	8.67	11.44	10.06	10.59	8.87	6.47
	.78	3.01	3.77	.43	2.71	1.87	3.17	1.41	3.12	3.38	2.69	3.57
	2	11	4	6	8	8	5	9	4	9	10	5
200	8.83	7.66	8.64	7.89	8.99	9.88	8.29	11.03	10.03	10.12	8.53	6.78
	.43	2.77	3.69	.61	2.65	1.95	3.02	1.15	2.61	3.18	2.46	3.09
	2	11	4	6	8	8	5	9	4	9	10	5
250	8.41	6.96	8.12	6.74	7.34	9.07	7.32	10.00	8.84	9.07	7.88	6.17
	1.00	2.02	2.85	.69	1.95	2.05	2.32	1.20	2.23	2.91	2.24	2.59
	2	11	4	6	7	8	5	9	4	9	10	5
300	7.25	6.40	6.56	6.14	6.21	7.89	6.48	8.68	7.64	7.68	7.04	5.88
	0.00	1.49	2.42	.74	1.49	2.07	2.02	1.46	1.92	2.51	1.76	1.95
	1	11	2	6	6	8	5	8	4	8	9	5
400	6.40	5.46	5.29	5.62	6.09	6.20	5.27	6.81	6.17	6.19	5.80	5.20
	0.00	.88	1.27	.36	1.40	1.11	1.36	1.44	.96	1.68	1.01	1.24
	1	9	2	6	5	8	5	7	4	7	9	5
500	0.00	4.73	4.75	4.89	4.87	5.51	4.45	5.30	5.45	5.47	5.09	4.77
	0.00	.40	.67	.30	.36	.76	.64	.75	.61	.62	.56	.28
	0	5	2	5	5	6	3	6	2	6	5	2

SALINITY AT STATION 1

MEAN, S.D., NO. OF OBSERVATIONS

DEPTH(M)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
0	30.92	31.20	31.12	31.28	30.93	30.85	30.73	30.84	30.62	30.94	30.65	31.16
	.22	.16	.31	.17	.46	.29	.23	.25	.21	.57	.29	.08
	7	7	3	6	8	8	6	11	6	7	7	5
10	30.85	31.18	31.17	31.27	30.93	30.93	30.97	31.14	30.66	30.93	30.64	31.14
	.27	.17	.33	.18	.47	.29	.31	.32	.22	.61	.28	.08
	7	7	3	6	8	8	6	11	6	7	7	5
20	30.96	31.19	31.21	31.32	31.16	31.18	31.31	31.54	31.40	31.24	30.71	31.19
	.21	.20	.31	.14	.44	.41	.30	.33	.63	.83	.32	.09
	7	7	3	6	8	8	6	11	6	7	7	5
30	30.99	31.20	31.28	31.45	31.40	31.41	31.46	31.80	31.83	31.52	30.91	31.39
	.27	.20	.34	.15	.29	.36	.34	.23	.84	.86	.50	.28
	7	7	3	6	8	8	6	11	6	7	7	5
50	31.11	31.28	31.57	31.70	31.65	31.75	31.78	32.24	32.21	31.96	31.27	31.56
	.37	.19	.16	.26	.29	.27	.35	.14	.87	.57	.74	.42
	7	7	3	6	8	8	6	11	6	6	7	5
75	31.53	31.42	32.01	31.99	32.03	32.13	32.19	32.53	32.25	32.44	31.67	31.96
	.34	.21	.41	.42	.21	.31	.22	.19	.07	.44	.73	.35
	6	6	3	5	7	5	6	10	2	4	6	5
100	0.00	0.00	0.00	0.00	0.00	32.53	32.34	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0	0	0	0	0	1	1	0	0	0	0	0

SALINITY AT STATION 2

MEAN, S.D., NO. OF OBSERVATIONS

DEPTH(M)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
0	30.78	31.37	31.23	31.51	31.11	30.98	30.47	30.75	30.70	30.70	30.65	30.98
	.56	.43	.34	.29	.50	.52	.73	.31	.52	.58	.41	.22
	5	11	6	7	13	7	6	9	5	9	10	6
10	30.75	31.35	31.26	31.52	31.15	30.99	30.87	30.79	30.72	30.77	30.66	30.97
	.54	.43	.33	.29	.48	.53	.51	.35	.49	.45	.41	.23
	5	11	6	7	13	7	6	9	5	9	10	6
20	30.78	31.38	31.34	31.59	31.33	31.29	31.35	31.66	31.22	30.90	30.75	31.01
	.55	.43	.38	.34	.41	.51	.39	.51	.35	.41	.42	.20
	5	11	6	7	13	7	6	9	5	9	10	6
30	30.81	31.44	31.45	31.71	31.59	31.51	31.82	32.06	31.90	31.45	31.06	31.06
	.54	.43	.44	.33	.31	.57	.38	.29	.27	.69	.61	.21
	5	11	6	7	13	7	6	9	5	9	10	6
50	31.19	31.67	31.65	31.93	31.84	31.94	32.32	32.40	32.32	32.23	31.79	31.43
	.20	.44	.36	.32	.19	.27	.15	.31	.12	.43	.60	.29
	5	11	6	7	13	7	6	9	5	9	10	6
75	31.71	31.98	32.19	32.15	32.27	32.31	32.75	32.83	32.64	32.72	32.50	32.48
	.38	.42	.52	.32	.51	.25	.18	.29	.08	.37	.28	.37
	5	11	6	7	13	7	6	9	5	9	10	6
100	32.09	32.38	32.59	32.53	32.62	32.76	33.04	33.24	33.09	33.17	32.83	32.87
	.51	.50	.65	.51	.35	.35	.27	.41	.38	.36	.23	.44
	5	10	6	7	12	7	6	9	5	9	10	6
125	32.66	32.81	33.28	33.22	33.32	33.41	33.33	33.81	33.69	33.58	33.31	33.20
	.80	.56	.77	.73	.46	.41	.38	.27	.51	.56	.33	.49
	5	9	5	6	10	6	5	7	5	4	7	6
150	32.54	33.27	33.58	32.92	33.74	33.78	33.72	33.87	34.36	0.00	34.09	34.31
	.69	.27	.79	0.00	.53	0.00	.69	.34	0.00	0.00	0.00	0.00
	2	4	5	1	7	1	2	2	1	0	1	1

SALINITY AT STATION 3

MEAN, S.D., NO. OF OBSERVATIONS

DEPTH(M)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
0	31.71	32.14	31.95	31.94	31.69	31.46	31.05	30.96	31.21	31.34	31.43	31.63
	.23	.38	.25	.38	.35	.21	.34	.37	.26	.57	.46	.29
	4	11	5	7	12	8	8	13	6	9	10	6
10	31.69	32.16	31.94	31.98	31.67	31.48	31.08	31.02	31.23	31.33	31.47	31.61
	.21	.38	.25	.31	.35	.25	.32	.36	.25	.58	.50	.29
	4	11	5	7	12	8	8	13	6	9	10	6
20	31.70	32.18	31.98	32.00	31.82	31.76	31.49	31.67	31.67	31.39	31.52	31.64
	.20	.37	.25	.30	.30	.30	.37	.49	.43	.54	.47	.27
	4	11	5	7	12	8	8	13	6	9	10	6
30	31.76	32.27	32.00	32.18	31.98	32.07	32.17	32.25	32.12	31.81	31.69	31.72
	.27	.35	.26	.21	.33	.40	.17	.21	.43	.58	.36	.23
	4	11	5	7	12	8	8	13	6	9	10	6
50	32.23	32.49	32.18	32.39	32.35	32.53	32.72	32.60	32.74	32.67	32.53	32.16
	.58	.36	.30	.25	.42	.45	.43	.20	.24	.36	.36	.51
	4	11	5	7	12	8	8	13	6	9	10	6
75	33.49	33.39	33.03	33.35	33.00	33.34	33.37	33.25	33.48	33.42	33.38	33.24
	.35	.51	.23	.53	.62	.38	.50	.30	.23	.31	.20	.58
	4	11	4	7	11	8	8	13	6	9	10	6
100	34.11	34.08	33.85	33.87	33.88	34.01	34.02	33.93	34.13	33.91	33.94	33.91
	.38	.40	.23	.62	.45	.37	.46	.34	.25	.30	.23	.32
	4	11	4	7	11	8	8	13	6	9	9	6
125	34.50	34.43	34.13	34.28	34.34	34.38	34.36	34.33	34.51	34.25	34.34	34.24
	.34	.28	.14	.60	.41	.31	.38	.29	.22	.29	.20	.32
	4	11	4	7	11	8	8	13	6	9	9	6
150	34.68	34.62	34.32	34.46	34.57	34.65	34.56	34.60	34.73	34.48	34.56	34.46
	.27	.26	.17	.48	.34	.23	.35	.21	.21	.30	.19	.29
	4	11	4	7	11	8	8	13	6	9	9	6
175	34.73	34.72	34.39	34.57	34.67	34.72	34.63	34.67	34.76	34.58	34.67	34.55
	.28	.23	.17	.41	.30	.18	.32	.19	.23	.30	.24	.25
	4	10	4	7	11	8	8	12	6	9	9	6
200	34.86	34.76	34.44	34.73	34.77	34.77	34.69	34.70	34.79	34.64	34.73	34.63
	.32	.24	.15	.33	.25	.16	.29	.20	.24	.30	.28	.29
	4	8	4	6	10	8	8	12	6	7	7	6
250	34.89	34.79	34.52	34.77	34.78	34.84	34.74	34.85	34.85	34.77	34.75	35.21
	.23	.29	.21	.21	.28	.19	.34	.25	.14	.12	.26	0.00
	4	3	4	3	8	6	5	4	4	3	4	1

SALINITY AT STATION 4

MEAN, S.D., NO. OF OBSERVATIONS

DEPTH(M)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
0	32.28	32.33	32.04	32.11	32.04	31.90	31.45	31.29	31.50	31.57	31.82	32.22
	.35	.39	.30	.30	.31	.32	.17	.56	.20	.54	.33	.22
	5	12	5	8	13	7	7	9	6	9	10	7
10	32.27	32.33	32.06	32.11	32.10	31.92	31.50	31.35	31.58	31.57	31.78	32.25
	.35	.38	.33	.30	.27	.27	.14	.51	.24	.52	.39	.25
	5	12	5	8	13	7	7	9	6	9	10	7
20	32.27	32.36	32.06	32.15	32.20	31.96	31.84	31.86	31.93	31.68	31.80	32.30
	.34	.40	.31	.34	.26	.31	.37	.44	.47	.49	.38	.32
	5	12	5	8	13	7	7	9	6	9	10	7
30	32.31	32.39	32.14	32.19	32.32	32.34	32.32	32.37	32.42	31.99	31.87	32.32
	.36	.41	.30	.33	.34	.51	.27	.32	.34	.54	.38	.37
	5	12	5	8	13	7	7	9	6	9	10	7
50	32.44	32.59	32.62	32.41	32.56	32.76	32.94	32.77	33.00	33.08	32.75	32.61
	.49	.48	.95	.31	.43	.49	.48	.37	.12	.38	.47	.47
	5	12	5	8	12	6	6	9	6	9	10	7
75	33.94	33.61	33.19	33.12	33.36	33.33	33.29	33.49	33.74	33.36	33.58	33.72
	.61	.66	.15	.56	.55	.22	.64	.44	.16	.48	.51	.65
	3	7	4	5	10	6	5	3	3	3	4	4

SALINITY AT STATION 5

MEAN, S.D., NO. OF OBSERVATIONS

DEPTH(M)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
0	32.06	32.35	32.53	32.73	32.39	32.22	31.97	31.84	31.71	31.91	31.96	32.18
	.45	.29	.26	.61	.28	.31	.41	.44	.57	.62	.52	.23
	5	11	5	8	13	6	6	9	6	9	10	5
10	32.23	32.37	32.53	32.78	32.37	32.26	32.04	32.05	31.87	31.89	31.96	32.19
	.56	.30	.26	.68	.24	.35	.42	.54	.47	.61	.48	.22
	5	11	5	8	13	6	6	9	6	9	10	5
20	32.23	32.41	32.54	32.81	32.45	32.42	32.24	32.37	32.17	31.96	32.04	32.27
	.57	.29	.26	.69	.25	.44	.50	.42	.44	.62	.61	.22
	5	11	5	8	13	6	6	9	6	9	10	5
30	32.24	32.44	32.55	32.94	32.50	32.66	32.45	32.66	32.55	32.24	32.18	32.39
	.57	.30	.28	.58	.25	.51	.54	.37	.41	.71	.82	.40
	5	11	5	8	13	6	6	9	6	9	10	5
50	32.38	32.59	32.64	33.14	32.85	33.15	33.07	33.00	32.97	33.17	32.85	32.62
	.44	.35	.23	.47	.40	.38	.44	.23	.49	.50	.54	.42
	5	11	5	8	13	6	6	9	6	9	10	5
75	33.18	33.33	33.48	33.66	33.58	33.63	33.62	33.51	33.73	33.51	33.48	33.24
	.44	.47	.53	.56	.65	.50	.61	.15	.49	.38	.41	.33
	5	10	5	7	12	4	6	8	5	9	10	5
100	34.11	34.03	0.00	34.43	33.71	0.00	0.00	0.00	33.92	32.97	33.33	34.54
	0.00	0.00	0.00	0.00	.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	1	1	0	1	2	0	0	0	1	1	1	1

SALINITY AT STATION 6

MEAN, S.D., NO. OF OBSERVATIONS

DEPTH(M)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
0.	32.77	32.48	32.44	32.71	32.78	32.28	31.95	31.78	32.34	32.56	32.09	32.49
	.97	.37	.24	.30	.58	.21	.48	.57	.91	.51	.52	.85
	6	10	4	5	13	5	4	9	6	9	8	6
10	32.74	32.48	32.43	32.70	32.81	32.31	32.05	32.00	32.43	32.60	32.08	32.58
	.98	.37	.25	.30	.59	.25	.49	.35	.90	.51	.50	.82
	6	10	4	5	13	5	4	9	6	9	8	6
20	32.89	32.54	32.63	32.71	32.95	32.53	32.25	32.77	32.79	32.84	32.25	32.66
	.96	.47	.26	.29	.62	.28	.50	.50	1.02	.70	.45	.86
	6	10	4	5	13	5	4	9	6	9	8	6
30	32.94	32.60	32.83	32.86	33.23	33.03	32.89	33.11	33.06	33.22	32.40	32.73
	.99	.59	.61	.33	.76	.58	.84	.42	.96	.77	.51	.91
	6	10	4	5	13	5	4	9	6	9	8	6
50	33.24	32.85	32.90	33.08	33.61	33.44	33.50	33.72	33.61	33.83	32.93	32.90
	.92	.66	.74	.34	.82	.73	1.01	.58	.96	.60	.38	.88
	6	10	4	5	13	5	4	9	6	9	8	6
75	33.83	33.44	33.29	33.67	34.20	34.24	34.07	34.52	34.66	34.43	33.60	33.59
	.99	.70	.91	.67	.85	.72	.98	.68	.95	.75	.64	.86
	6	10	4	5	13	5	4	9	6	9	8	6
100	34.23	33.99	34.14	34.16	34.52	34.72	34.39	34.99	34.95	34.93	34.15	34.12
	.77	.69	.89	.72	.81	.49	.94	.57	.69	.74	.48	1.16
	6	10	4	5	13	5	4	9	6	9	8	6
125	34.43	34.37	34.52	34.51	34.78	35.00	34.50	35.09	35.13	35.11	34.40	34.32
	.77	.60	.90	.41	.57	.38	.78	.44	.56	.46	.44	1.00
	6	10	4	5	12	5	4	9	6	9	8	6
150	34.59	34.70	34.74	34.70	34.94	35.12	34.53	35.16	35.22	35.20	34.59	34.52
	.71	.43	.78	.22	.39	.22	.59	.36	.45	.30	.42	.87
	6	10	4	5	12	5	4	9	6	9	8	6
175	34.82	34.83	34.81	34.69	34.93	35.20	34.74	35.17	35.23	35.21	34.67	34.63
	.61	.31	.60	.14	.28	.18	.40	.27	.38	.25	.42	.73
	6	10	4	5	12	5	4	9	6	9	8	6
200	34.95	34.90	34.88	34.70	34.96	35.09	34.86	35.11	35.20	35.18	34.84	34.72
	.44	.25	.45	.13	.27	.12	.30	.24	.33	.21	.23	.63
	6	10	4	5	12	5	4	9	6	9	7	6
250	34.97	34.88	34.80	34.72	34.96	34.99	34.82	35.02	35.06	35.08	34.87	34.77
	.25	.23	.34	.15	.24	.11	.24	.16	.33	.16	.15	.47
	6	9	3	5	12	5	4	9	6	9	7	6
300	35.00	34.88	34.71	34.74	34.91	34.95	34.80	34.94	35.01	34.98	34.85	34.89
	.21	.26	.21	.07	.22	.09	.20	.07	.22	.11	.10	.35
	6	8	2	5	10	4	4	7	6	7	7	5
400	35.00	34.80	34.79	34.81	34.96	34.86	34.78	34.92	34.95	34.91	34.88	34.96
	.16	.22	.15	.05	.21	.06	.20	.06	.13	.08	.09	.24
	5	5	2	5	8	4	4	7	6	5	7	5
500	34.89	34.91	34.87	34.92	34.89	34.90	34.83	34.89	34.89	34.88	34.86	34.88
	0.00	0.00	.08	.13	.12	.03	.02	.05	.07	.03	.08	.03
	1	1	2	4	5	3	2	3	4	5	3	3

SALINITY AT STATION 7

MEAN, S.D., NO. OF OBSERVATIONS

DEPTH(M)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
0	33.14	32.83	33.25	32.90	33.39	32.96	32.10	32.69	32.75	33.53	33.42	32.64
	.13	.73	.83	.20	.70	1.01	.45	1.37	1.08	1.33	1.26	.66
	2	11	4	6	8	8	5	9	5	9	10	5
10	33.13	32.83	33.23	32.90	33.43	33.04	32.37	33.03	33.47	33.49	33.38	32.64
	.11	.77	.85	.20	.76	1.06	.40	1.42	.77	1.37	1.25	.67
	2	11	4	6	8	8	5	9	5	9	10	5
20	33.13	32.92	33.29	32.95	33.60	33.30	32.74	33.72	33.84	33.51	33.41	32.74
	.11	.71	.78	.15	.85	1.09	.67	1.15	1.08	1.36	1.25	.61
	2	11	4	6	8	8	5	9	5	9	10	5
30	33.18	33.08	33.32	33.02	33.85	33.44	33.15	34.10	33.79	33.66	33.58	32.85
	.18	.71	.81	.12	1.02	1.03	.78	1.05	1.26	1.29	1.05	.62
	2	11	4	6	8	8	5	9	5	9	10	5
50	33.22	33.39	33.47	33.22	34.30	33.99	33.99	34.56	34.36	34.15	33.99	33.01
	.25	.76	.90	.16	.84	.88	1.08	.84	1.41	1.12	.83	.68
	2	11	4	6	8	8	5	9	5	9	10	5
75	33.58	34.05	33.92	33.99	34.68	34.50	34.57	35.22	34.44	34.61	34.35	33.51
	.12	.79	.94	.29	.61	.86	.88	.46	1.27	1.21	.87	.77
	2	11	4	6	8	8	5	9	5	9	10	5
100	34.16	34.59	34.40	34.35	34.94	34.98	34.69	35.40	34.70	34.89	34.76	33.99
	.16	.69	.72	.40	.48	.60	.67	.26	1.13	1.04	.74	.91
	2	11	4	6	8	8	5	9	5	9	10	5
125	34.63	34.77	34.61	34.75	35.06	35.12	34.89	35.42	34.84	35.05	34.86	34.27
	.36	.60	.56	.26	.43	.37	.51	.21	.95	.82	.60	.73
	2	11	4	6	8	8	5	9	5	9	10	5
150	34.96	34.86	34.86	34.89	35.10	35.19	35.02	35.38	35.01	35.14	34.94	34.52
	.54	.52	.45	.16	.45	.27	.43	.30	.64	.63	.51	.59
	2	11	4	6	8	8	5	9	5	9	10	5
175	34.93	34.89	35.01	34.98	35.08	35.20	35.06	35.37	35.19	35.16	34.96	34.67
	.46	.45	.45	.17	.40	.26	.39	.30	.50	.58	.43	.49
	2	11	4	6	8	8	5	9	4	9	10	5
200	35.00	34.90	35.10	34.96	35.04	35.16	35.06	35.36	35.21	35.15	34.99	34.76
	.30	.37	.42	.18	.37	.24	.37	.20	.37	.55	.36	.41
	2	11	4	6	8	8	5	9	4	9	10	5
250	35.09	34.89	35.13	34.95	34.90	35.13	34.97	35.22	35.14	35.08	35.00	34.82
	.02	.25	.24	.13	.27	.25	.26	.16	.25	.45	.27	.31
	2	11	4	6	7	8	5	9	4	9	10	5
300	35.10	34.92	34.97	34.92	34.81	35.04	35.00	35.14	35.04	34.95	34.97	34.90
	0.00	.17	.11	.13	.18	.23	.32	.19	.20	.29	.20	.19
	1	11	2	6	6	8	5	8	4	8	9	5
400	35.25	34.93	34.92	34.99	34.91	34.91	34.94	35.00	34.98	34.92	35.00	34.91
	0.00	.08	.04	.15	.13	.10	.20	.25	.07	.16	.14	.12
	1	9	2	6	5	8	5	7	4	7	9	5
500	0.00	34.94	34.93	35.00	34.91	34.89	34.85	35.02	34.97	34.89	34.98	34.95
	0.00	.06	0.00	.18	.12	.07	.09	.26	.03	.04	.11	.01
	0	5	2	5	5	6	3	6	2	6	5	2

DENSITY AT STATION 1

MEAN, S.D., NO. OF OBSERVATIONS

DEPTH (M)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
0	24.69	25.00	24.99	25.04	24.48	24.00	23.22	22.85	22.56	23.30	23.75	24.59
	.19	.14	.23	.13	.41	.39	.41	.72	.45	.57	.45	.11
	7	7	3	6	8	8	6	11	6	7	7	5
10	24.65	25.00	25.03	25.06	24.52	24.33	23.90	23.54	22.67	23.38	23.75	24.55
	.24	.14	.25	.15	.41	.22	.56	.98	.50	.59	.44	.12
	7	7	3	6	8	8	6	11	6	7	7	5
20	24.73	25.00	25.05	25.10	24.87	24.77	24.68	24.64	24.17	23.99	23.81	24.59
	.18	.16	.23	.11	.38	.34	.53	.79	.79	1.10	.48	.13
	7	7	3	6	8	8	6	11	6	7	7	5
30	24.75	25.01	25.10	25.22	25.11	25.05	25.01	25.26	24.97	24.42	24.02	24.77
	.21	.16	.24	.11	.23	.27	.48	.25	.77	1.22	.62	.30
	7	7	3	6	8	8	6	11	6	7	7	5
50	24.84	25.07	25.31	25.42	25.33	25.36	25.41	25.71	25.60	25.17	24.38	24.93
	.28	.15	.13	.20	.26	.22	.32	.12	.72	.61	.84	.43
	7	7	3	6	8	8	6	11	6	6	7	5
75	25.13	25.17	25.60	25.63	25.65	25.68	25.77	25.92	25.73	25.68	24.87	25.30
	.26	.17	.30	.28	.16	.24	.19	.16	.11	.36	.83	.40
	6	6	3	5	7	5	6	10	2	4	6	5
100	0.00	0.00	0.00	0.00	0.00	26.02	25.83	0.00	0.00	0.00	0.00	0.00
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	0	0	0	0	0	1	1	0	0	0	0	0

DENSITY AT STATION 2

MEAN, S.D., NO. OF OBSERVATIONS

DEPTH (M)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
0	24.62	25.15	25.04	25.24	24.66	23.96	22.82	22.50	22.38	22.86	23.69	24.43
	.41	.35	.31	.24	.44	.45	.55	.62	.60	.59	.39	.29
	5	11	6	7	13	7	6	9	5	9	10	6
10	24.60	25.14	25.11	25.25	24.76	24.15	23.31	22.65	22.44	22.94	23.69	24.42
	.40	.35	.26	.24	.41	.41	.58	.62	.60	.49	.38	.30
	5	11	6	7	13	7	6	9	5	9	10	6
20	24.63	25.16	25.16	25.33	25.00	24.66	24.21	24.32	23.47	23.07	23.75	24.44
	.41	.35	.28	.28	.32	.32	.75	.76	.23	.35	.41	.29
	5	11	6	7	13	7	6	9	5	9	10	6
30	24.65	25.21	25.24	25.43	25.25	25.05	25.04	25.31	24.99	23.93	24.05	24.48
	.41	.35	.29	.25	.26	.40	.46	.33	.42	.69	.66	.29
	5	11	6	7	13	7	6	9	5	9	10	6
50	24.93	25.36	25.39	25.58	25.49	25.48	25.84	25.76	25.73	25.39	24.84	24.81
	.16	.33	.23	.22	.11	.21	.08	.26	.17	.73	.64	.19
	5	11	6	7	13	7	6	9	5	9	10	6
75	25.30	25.57	25.71	25.73	25.81	25.81	26.15	26.10	26.05	26.00	25.81	25.85
	.29	.31	.25	.19	.40	.20	.10	.13	.09	.26	.27	.30
	5	11	6	7	13	7	6	9	5	9	10	6
100	25.60	25.81	25.94	25.96	26.00	26.06	26.30	26.30	26.28	26.32	26.12	26.16
	.37	.34	.33	.25	.17	.19	.07	.22	.11	.20	.15	.28
	5	10	6	7	12	7	6	9	5	9	10	6
125	25.90	26.05	26.29	26.33	26.35	26.37	26.46	26.48	26.57	26.53	26.40	26.34
	.45	.29	.31	.32	.23	.18	.11	.26	.19	.30	.17	.28
	5	9	5	6	10	6	5	7	5	4	7	6
150	25.87	26.35	26.44	26.23	26.50	26.53	26.61	26.32	26.69	0.00	26.80	26.99
	.47	.06	.29	0.00	.31	0.00	.13	.49	0.00	0.00	0.00	0.00
	2	4	5	1	7	1	2	2	1	0	1	1

DENSITY AT STATION 3

MEAN, S.D., NO. OF OBSERVATIONS

DEPTH (M)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
0	25.23	25.61	25.57	25.49	25.02	24.20	22.96	22.27	22.62	23.28	24.20	24.84
	.14	.22	.22	.28	.40	.40	.22	.54	.51	.51	.43	.25
	4	11	5	7	12	8	8	13	6	9	10	6
10	25.22	25.63	25.58	25.53	25.04	24.19	23.06	22.41	22.66	23.28	24.21	24.83
	.13	.21	.21	.22	.37	.47	.16	.58	.52	.51	.48	.25
	4	11	5	7	12	8	8	13	6	9	10	6
20	25.23	25.64	25.60	25.56	25.20	24.65	24.08	24.02	23.50	23.36	24.25	24.84
	.13	.21	.21	.20	.26	.50	.55	1.12	1.02	.45	.46	.25
	4	11	5	7	12	8	8	13	6	9	10	6
30	25.26	25.70	25.62	25.69	25.43	25.26	25.32	25.45	24.98	24.24	24.38	24.89
	.16	.19	.21	.11	.26	.42	.22	.27	.67	.65	.39	.26
	4	11	5	7	12	8	8	13	6	9	10	6
50	25.54	25.84	25.68	25.87	25.78	25.83	26.00	25.92	26.02	25.72	25.48	25.27
	.39	.20	.23	.13	.29	.26	.25	.18	.17	.48	.51	.46
	4	11	5	7	12	8	8	13	6	9	10	6
75	26.38	26.32	26.25	26.36	26.13	26.33	26.38	26.37	26.44	26.38	26.36	26.33
	.13	.23	.11	.20	.37	.18	.19	.15	.12	.12	.09	.39
	4	11	4	7	11	8	8	13	6	9	10	6
100	26.68	26.70	26.68	26.60	26.58	26.63	26.71	26.66	26.72	26.65	26.65	26.74
	.09	.14	.14	.21	.14	.23	.10	.12	.11	.11	.07	.08
	4	11	4	7	11	8	8	13	6	9	9	6
125	26.87	26.87	26.76	26.80	26.77	26.79	26.85	26.83	26.88	26.81	26.84	26.88
	.09	.07	.18	.17	.10	.23	.12	.09	.08	.15	.07	.09
	4	11	4	7	11	8	8	13	6	9	9	6
150	26.96	26.98	26.87	26.91	26.91	26.95	26.96	26.95	26.99	26.92	26.93	27.00
	.08	.08	.26	.10	.05	.15	.10	.06	.08	.16	.06	.08
	4	11	4	7	11	8	8	13	6	9	9	6
175	26.98	27.04	26.93	26.99	26.98	27.01	27.00	27.00	27.03	26.96	27.00	27.07
	.12	.07	.28	.09	.07	.13	.11	.07	.06	.13	.06	.06
	4	10	4	7	11	8	8	12	6	9	9	6
200	27.05	27.08	26.98	27.05	27.04	27.05	27.03	27.03	27.06	26.99	27.07	27.13
	.06	.08	.27	.08	.06	.12	.12	.08	.06	.08	.05	.09
	4	8	4	6	10	8	8	12	6	7	7	6
250	27.14	27.14	27.06	27.12	27.08	27.14	27.11	27.13	27.10	27.08	27.11	27.42
	.07	.10	.27	.06	.08	.15	.13	.10	.08	.08	.06	0.00
	4	3	4	3	8	6	5	4	4	3	4	1

DENSITY AT STATION 4

MEAN, S.D., NO. OF OBSERVATIONS

DEPTH (M)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
0	25.56	25.73	25.61	25.61	25.19	24.51	23.16	22.59	22.83	23.44	24.40	25.23
	.31	.24	.24	.20	.32	.20	.33	.78	.40	.46	.34	.23
	5	12	5	8	13	7	7	9	6	9	10	7
10	25.55	25.73	25.64	25.61	25.30	24.73	23.24	22.74	22.91	23.47	24.37	25.26
	.31	.24	.27	.20	.23	.21	.36	.92	.47	.46	.37	.26
	5	12	5	8	13	7	7	9	6	9	10	7
20	25.55	25.75	25.65	25.65	25.40	25.07	24.36	24.14	23.90	23.63	24.39	25.27
	.31	.24	.26	.22	.23	.25	.74	.82	.93	.48	.37	.27
	5	12	5	8	13	7	7	9	6	9	10	7
30	25.57	25.76	25.70	25.70	25.54	25.52	25.33	25.27	25.16	24.04	24.45	25.29
	.31	.23	.25	.21	.25	.56	.36	.33	.48	.84	.38	.29
	5	12	5	8	13	7	7	9	6	9	10	7
50	25.65	25.88	25.93	25.87	25.87	26.04	26.13	25.90	26.13	25.91	25.40	25.54
	.36	.25	.45	.19	.26	.38	.23	.33	.14	.28	.58	.35
	5	12	5	8	12	6	6	9	6	9	10	7
75	26.50	26.44	26.35	26.24	26.36	26.35	26.35	26.39	26.44	26.25	26.42	26.44
	.37	.30	.11	.24	.37	.18	.24	.13	.17	.09	.24	.33
	3	7	4	5	10	6	5	3	3	3	4	4

DENSITY AT STATION 5

MEAN, S.D., NO. OF OBSERVATIONS

DEPTH (M)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
0	25.45	25.75	25.94	26.00	25.47	24.90	23.75	22.97	22.99	23.70	24.52	25.22
	.35	.23	.26	.40	.25	.40	.46	.66	.52	.59	.46	.22
	5	11	5	8	13	6	6	9	6	9	10	5
10	25.57	25.77	25.92	26.05	25.47	24.97	24.06	23.26	23.20	23.68	24.51	25.21
	.37	.23	.23	.43	.23	.36	.56	.69	.47	.60	.45	.22
	5	11	5	8	13	6	6	9	6	9	10	5
20	25.57	25.79	25.92	26.06	25.58	25.25	24.77	24.33	23.98	23.80	24.56	25.23
	.38	.21	.23	.43	.15	.37	.77	.69	.17	.63	.46	.22
	5	11	5	8	13	6	6	9	6	9	10	5
30	25.58	25.80	25.93	26.16	25.67	25.54	25.36	25.22	25.05	24.12	24.65	25.30
	.38	.20	.24	.34	.14	.51	.63	.53	.36	.74	.49	.28
	5	11	5	8	13	6	6	9	6	9	10	5
50	25.68	25.90	25.97	26.25	26.00	26.15	26.18	26.01	25.92	25.56	25.49	25.57
	.26	.20	.21	.17	.22	.16	.33	.38	.46	.53	.44	.21
	5	11	5	8	13	6	6	9	6	9	10	5
75	26.12	26.30	26.36	26.51	26.40	26.51	26.53	26.44	26.54	26.38	26.34	26.15
	.28	.30	.11	.16	.22	.16	.21	.11	.17	.16	.19	.13
	5	10	5	7	12	4	6	8	5	9	10	5
100	26.63	26.58	0.00	26.67	26.40	0.00	0.00	0.00	26.42	26.43	26.51	26.56
	0.00	0.00	0.00	0.00	.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	1	1	0	1	2	0	0	0	1	1	1	1

DENSITY AT STATION 6

MEAN, S.D., NO. OF OBSERVATIONS

DEPTH (M)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
0	25.80	25.84	25.92	26.02	25.65	24.88	23.66	22.45	23.30	23.96	24.73	25.33
	.29	.32	.24	.26	.30	.32	.45	.57	.51	.50	.55	.41
	6	10	4	5	13	5	4	9	6	9	8	6
10	25.79	25.84	25.91	26.01	25.73	24.97	23.94	22.75	23.54	23.99	24.73	25.34
	.29	.30	.25	.25	.29	.22	.44	.47	.58	.49	.52	.38
	6	10	4	5	13	5	4	9	6	9	8	6
20	25.88	25.88	26.03	26.02	25.89	25.30	24.56	24.19	24.18	24.09	24.81	25.36
	.28	.34	.19	.25	.31	.13	.67	.72	1.11	.51	.45	.38
	6	10	4	5	13	5	4	9	6	9	8	6
30	25.89	25.91	26.12	26.13	26.05	25.82	25.59	25.26	24.83	24.43	24.95	25.40
	.29	.37	.31	.24	.33	.28	.84	.75	.95	.59	.45	.39
	6	10	4	5	13	5	4	9	6	9	8	6
50	26.01	26.03	26.15	26.28	26.29	26.17	26.27	26.07	26.06	25.88	25.54	25.60
	.26	.36	.33	.19	.32	.40	.46	.47	.32	.41	.51	.38
	6	10	4	5	13	5	4	9	6	9	8	6
75	26.38	26.30	26.30	26.53	26.63	26.60	26.62	26.56	26.63	26.47	26.41	26.26
	.31	.33	.33	.19	.29	.27	.35	.14	.17	.26	.38	.11
	6	10	4	5	13	5	4	9	6	9	8	6
100	26.79	26.67	26.72	26.72	26.80	26.80	26.81	26.76	26.78	26.71	26.76	26.63
	.30	.33	.20	.22	.30	.18	.51	.14	.14	.11	.18	.12
	6	10	4	5	13	5	4	9	6	9	8	6
125	26.89	26.86	26.89	26.93	26.94	26.92	26.93	26.87	26.91	26.87	26.92	26.79
	.26	.25	.18	.14	.22	.18	.47	.14	.14	.09	.15	.10
	6	10	4	5	12	5	4	9	6	9	8	6
150	26.98	27.03	27.05	27.07	27.07	27.05	26.98	26.98	26.99	26.98	27.00	26.94
	.19	.22	.12	.09	.19	.15	.23	.16	.13	.10	.11	.10
	6	10	4	5	12	5	4	9	6	9	8	6
175	27.14	27.12	27.15	27.19	27.12	27.22	27.05	27.07	27.07	27.04	27.11	27.01
	.19	.22	.10	.08	.20	.15	.22	.13	.13	.09	.15	.11
	6	10	4	5	12	5	4	9	6	9	8	6
200	27.23	27.17	27.22	27.27	27.20	27.22	27.14	27.10	27.14	27.09	27.24	27.09
	.19	.23	.13	.08	.15	.13	.27	.15	.12	.10	.08	.13
	6	10	4	5	12	5	4	9	6	9	7	6
250	27.35	27.31	27.32	27.35	27.32	27.32	27.26	27.22	27.26	27.19	27.35	27.23
	.20	.17	.11	.11	.16	.09	.21	.12	.09	.10	.04	.11
	6	9	3	5	12	5	4	9	6	9	7	6
300	27.42	27.41	27.48	27.46	27.43	27.43	27.36	27.30	27.38	27.33	27.44	27.37
	.17	.15	.03	.10	.16	.09	.14	.19	.08	.08	.05	.08
	6	8	2	5	10	4	4	7	6	7	7	5
400	27.57	27.52	27.57	27.56	27.62	27.50	27.49	27.50	27.54	27.48	27.58	27.57
	.12	.10	.01	.09	.18	.09	.17	.10	.06	.06	.06	.03
	5	5	2	5	8	4	4	7	6	5	7	5
500	27.65	27.63	27.65	27.64	27.61	27.61	27.63	27.59	27.63	27.57	27.62	27.64
	0.00	0.00	.01	.12	.06	.05	.03	.06	.03	.04	.04	.03
	1	1	2	4	5	3	2	3	4	5	3	3

DENSITY AT STATION 7

MEAN, S.D., NO. OF OBSERVATIONS

DEPTH (M)	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
0	26.14	25.97	26.29	26.12	25.87	24.90	23.58	23.06	23.87	24.33	25.17	25.44
	.23	.37	.38	.13	.28	.51	.46	1.02	1.66	.77	.50	.36
	2	11	4	6	8	8	5	9	5	9	10	5
10	26.14	25.97	26.28	26.13	25.92	25.00	24.35	23.49	24.28	24.30	25.11	25.45
	.22	.36	.38	.13	.25	.48	.36	1.13	1.38	.79	.44	.38
	2	11	4	6	8	8	5	9	5	9	10	5
20	26.13	26.01	26.31	26.17	26.01	25.40	25.00	24.61	24.67	24.31	25.12	25.49
	.21	.31	.33	.11	.27	.36	.63	.81	1.24	.78	.43	.39
	2	11	4	6	8	8	5	9	5	9	10	5
30	26.16	26.08	26.32	26.22	26.15	25.66	25.77	25.25	25.34	24.53	25.28	25.56
	.25	.27	.35	.10	.33	.29	.13	.60	.91	.60	.38	.34
	2	11	4	6	8	8	5	9	5	9	10	5
50	26.17	26.23	26.38	26.38	26.48	26.25	26.37	26.02	26.48	25.46	25.78	25.82
	.28	.20	.33	.12	.30	.24	.12	.55	.43	.45	.44	.28
	2	11	4	6	8	0	5	9	5	9	10	5
75	26.30	26.51	26.54	26.74	26.68	26.59	26.72	26.57	26.58	26.29	26.56	26.30
	.17	.11	.16	.19	.27	.24	.19	.23	.25	.32	.35	.40
	2	11	4	6	8	8	5	9	5	9	10	5
100	26.66	26.79	26.87	26.76	26.84	26.74	26.87	26.74	26.76	26.59	26.84	26.66
	.07	.14	.23	.36	.17	.33	.15	.10	.19	.23	.17	.22
	2	11	4	6	8	8	5	9	5	9	10	5
125	26.98	26.92	26.97	27.07	26.90	26.85	26.91	26.83	26.86	26.73	26.91	26.87
	.13	.19	.24	.16	.16	.30	.27	.11	.19	.25	.16	.19
	2	11	4	6	8	8	5	9	5	9	10	5
150	27.14	27.03	27.07	27.19	26.99	26.95	27.08	26.89	26.96	26.83	27.00	27.05
	.14	.23	.27	.15	.14	.36	.20	.10	.16	.25	.17	.21
	2	11	4	6	8	8	5	9	5	9	10	5
175	27.14	27.13	27.13	27.26	27.06	27.01	27.17	26.97	27.05	26.92	27.07	27.17
	.23	.16	.24	.15	.15	.30	.17	.09	.17	.23	.18	.20
	2	11	4	6	8	8	5	9	4	9	10	5
200	27.15	27.21	27.19	27.26	27.12	27.08	27.23	27.05	27.09	27.00	27.15	27.21
	.30	.16	.24	.18	.16	.27	.16	.10	.17	.22	.19	.16
	2	11	4	6	8	8	5	9	4	9	10	5
250	27.28	27.32	27.32	27.41	27.27	27.19	27.32	27.11	27.23	27.13	27.27	27.35
	.17	.11	.26	.15	.07	.24	.13	.17	.14	.20	.16	.13
	2	11	4	6	7	8	5	9	4	9	10	5
300	27.46	27.42	27.44	27.47	27.37	27.30	27.47	27.27	27.35	27.25	27.38	27.47
	0.00	.08	.24	.10	.06	.19	.10	.17	.13	.19	.12	.14
	1	11	2	6	6	8	5	8	4	8	9	5
400	27.70	27.56	27.58	27.59	27.46	27.45	27.58	27.44	27.51	27.45	27.57	27.57
	0.00	.08	.12	.14	.16	.15	.07	.10	.08	.14	.07	.06
	1	9	2	6	5	8	5	7	4	7	9	5
500	0.00	27.66	27.65	27.69	27.62	27.53	27.62	27.65	27.60	27.53	27.65	27.66
	0.00	.05	.08	.14	.07	.13	.06	.12	.10	.05	.03	.03
	0	5	2	5	5	6	3	6	2	6	5	2